

<110> Victor Roschke
 <120> 29 Human Cancer Associated Proteins
 <130> PA004P1
 <150> unassigned
 <151> 2001-12-21
 <150> PCT/US00/23794
 <151> 2000-08-30
 <150> 60/152,296
 <151> 1999-09-03
 <150> 60/158,003
 <151> 1999-10-06
 <160> 138
 <170> PatentIn Ver. 2.0

<210> 1	60
<211> 733	120
<212> DNA	180
<213> Homo sapiens	240

<400> 1	300
ggatccgga gccaaatct tctgacaaaa ctcacacatg cccaccgtgc ccagcacctg	60
aattcgggg tgcacccgtca gttttcttcc tccccccaaa accaaaggac accctcatga	120
tctccggac tcttgaggtc acatgcgtgg tggtggacgt aagccacgaa gaccctgagg	180
tcaagtcaa ctggatcgatg gacggcgtgg aggtgcataa tgccaaagaca aagccgcggg	240
aggaggatca caacagcacy taccgtgtgg ttagcgtctt caccgtctcg caccaggact	300
ggctgtatgg caaggagtag aagtgcaaagg ttccaaacaa agccctccca acccccatcc	360
agaaaaacccat ctccaaaggcc aaaggccagc cccgagaacc acagggttaa accctgcccc	420
cattccgggg tgtagctgacc aagaaccagg tcaagctgac ctgcttggtc aaaggcttct	480
atccaaagccat cattccgggg gtagtggggaga gcaatgggca gccggagaaac aactacaaga	540
ccacgccttc cgtgctgacat tccgacgctt cttttttctt ctacagcaag ctacacgtgg	600
acaaggacgac gtggcagcag gggaaacgttc tctcatgttc cgtgtatgtcat gaggtcttgc	660
acaacacta caccgaaag agcccttccc tgttcccggt taaatgatgtcgacggccgc	720
gactctagat gat	733

<210> 2	
<211> 5	
<212> PRT	
<213> Homo sapiens	

<220>	
<221> Site	
<222> (3)	
<223> Xaa equals any of the twenty naturally occurring L-amino acids	

<400> 2	
Trp Ser Xaa Trp Ser	
1	5

<210> 3	
<211> 86	
<212> DNA	
<213> Artificial Sequence	

<220>	
<221> Primer_Bind	
<223> Synthetic sequence with 4 tandem copies of the GAS binding site found in the IRF1 promoter (Rothman et al., Immunity 1:457-468 (1994)), 18 nucleotides complementary to the SV40 early promoter,	

and a Xho I restriction site.

<400> 3
 ggcgcctcgag atttccccga aatcttagatt tcccccgaat gatttcccg aaatgatttc 60
 cccgaaatat ctgccatctc aattag 86

<210> 4
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> Primer_Bind
 <223> Synthetic sequence complementary to the SV40 promoter; includes a Hind III restriction site.

<400> 4
 gcgcaagct ttttgcggaaag ccttaggc 27

<210> 5
 <211> 271
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> Protein_Bind
 <223> Synthetic promoter for use in biological assays; includes GAS binding sites found in the IRF1 promoter (Rothman et al., *Immunity* 1:457-468 (1994)).

<400> 5
 ctccgaggatt ccccgaaatc tagattttccg cggaaatgatt tcccccgaat gatttcccg 60
 aaatctgc cacttcattt agtcagcaac catatgtcccg cccctaactc cgcccatcccc 120
 gcccctaact cccggccagggtt ccggccattc tccggcccat ggctgactaa ttttttttat 180
 ttatgcggag gccggaggccg cctcgccctc tgtagcttattc cagaaggtagt gaggaggctt 240
 tttttggggc cttaggtttt gcaaaaaagct t 271

<210> 6
 <211> 32
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> Primer_Bind
 <223> Synthetic primer complementary to human genomic EGR-1 promoter sequence (Sakamoto et al., *Oncogene* 6:867-871 (1991)); includes a Xho I restriction site.

<400> 6
 gcgctcgagg gatgacagcg atagaacccc gg 32

<210> 7
 <211> 31
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> Primer_Bind
 <223> Synthetic primer complementary to human genomic EGR-1 promoter sequence (Sakamoto et al., *Oncogene* 6:867-871 (1991)); includes a Hind III restriction site.

<400> 7
 gcgaaagcttc gcgactcccc ggatccggct c 31

<210> 8

```

<211> 12
<212> DNA
<213> Homo sapiens

<400> 8
ggggactttc cc

<210> 9
<211> 73
<212> DNA
<213> Artificial Sequence

<220>
<221> Primer_Bind
<223> Synthetic primer with 4 tandem copies of the NF-KB binding site
(GGGGACTTTCCC), 18 nucleotides complementary to the 5' end of the
SV40 early promoter sequence, and a XhoI restriction site.

<400> 9
gcgcgcctcg a gggactttc ccggggactt tccgggact ttccggact ttccatctg      60
ccatctcaat tag                                73

<210> 10
<211> 256
<212> DNA
<213> Artificial Sequence

<220>
<221> Protein_Bind
<223> Synthetic promoter for use in biological assays; includes NF-KB
binding sites.

<400> 10
ctcgaggggg ctttccggg gactttccgg ggactttccg ggactttcca tctgcacatc      60
caatagtca gcaaccatag tcccgccctc aactccgccc atcccgcccc taactccgccc 120
cagtccggc catttccgc cccatggctg actaatttt ttatattatg cagaggccga 180
ggccgcctcg gcctctgagc tattccagaa gtatgtgagga ggctttttt gaggccctagg 240
cttttgcaaa aagctt                                256

<210> 11
<211> 1388
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1388)..(1388)
<223> n equals a,t,g, or c

<400> 11
ccggatcgacc cacgcgtccg gtccttagga gataagagta tcttgcacag caggtcgagg      60
ctttccagca gtcaggcaaa gactccatg tttgtgcatt ctgtatctga tgatctggaga 120
gatagccatg ttgtggactcg aattttggcaa tgacaaggcc aaggagccga gctgtgggtgg 180
cagggtggcgta gtgtcttggt acgaaagggtt tgtcagccca tgcgttgcgc aactgtggg 240
ctctgtgttcc ttcatcttca tccgggtggct gtccggatcat gagaatggga cggacactgg 300
gtgtgtcgag ccggccctgg cccacgggt ggctttgggg ctgtgttgc ccaacgtggg 360
gaatatcgtt ggtggacatc tcaacccctgc ggtgtccctg gcagccatgc tgatcgagg 420
cctcaacccctg gtgtatgtcc tccctgtactcg ggtctccacag ctgtctcggg ggtatgtccgg 480
ggctgtccctgg gccaaggccg tgagttctga ggagagggtt tggaaatgcat ctggggccggc 540
ctttttgtgaca gttccaggagc aggggccagggt ggccagggggg aatggggccatc agatccatcc 600
gacggacgtcg ctggccctgg ctgtatgtcat ggtgtccatc aatggaaaga caaaggcccc 660
tctggccccc tttccatcg gttttggccgt caccgtggat atcttgggtcg gggccctgt 720
gtctggaggcc ttcgtatcaatc ccggccctgc ttttggaccc ggggtgggtgg ccaacactg 780
gaacttccac tggatgtccatcg ggtgtggccac actcttgggtt ggccgttgggtt ttggactgtc 840
cattatgtcc ttcattatgttggag atggaaagac ccgccttcatc ctggaggcgc aatgtaaaggcag 900
agctcggtgg attccatgtc ctccagggtt cctcagctca cctgtcccaag actggaggaca 960

```

ggggagttc	tgcatttct	gccagggcag	aggcccagag	gagcgacccc	ctgcttccac	1020
tgcctggcc	tgctttctca	gatagactga	ctgctgagga	ggctctaggt	tcttggaaatt	1080
cctttagtgc	catcagagac	cccagctgg	ggaacacgcgt	gcccggactg	cccaagagacg	1140
atgcgtcaaca	ccacaacacg	agcgtgtttc	tttagagggaa	tgtcccccag	ttggacaagg	1200
aggctgtttc	tgcacatcg	ctcatttccc	gcacccattt	tcttkcttga	ttgcttgg	1260
gggggcctgg	ccacttctt	gcttctcaag	ctgacaattt	tgactttgc	aataaatagt	1320
ccagtgtttc	cttccaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1380
aaaaaaaaan						1388

<210> 12

<211> 1478

<212> DNA

<213> Homo sapiens

<400> 12	ccacgcgtcc	ggaagtaatg	atgacaaaat	actctaacct	ttccttggag	agtctataact	60
tctctgtcac	tgcttcaccc	tttacaatgc	tgcccatccc	ggaagtaatgc	atgacaaaat	120	
acttcaccc	tcttcggaa	agtctataac	tctctactgc	tgaacattcc	agtgtgtccag	180	
tggaaaaaaa	tatctactt	gaaacgcctt	ctgtgttgc	actcacaatgt	cagttcacaa	240	
cttctgggg	tgtgaatcca	tttataatgt	ttttggaaaa	aggggatgaa	caactttaaga	300	
attaccatgt	cgtgcacca	gaaaggcatcc	tttataatccca	tttataatgtt	tccatcatat	360	
atagcgaaca	acttggaaagc	tatttttttgc	ttttttggaa	ggggaaaggaa	cgaaggggca	420	
catttaattt	cgaggatccc	gaaggttcaga	ggggaaacaa	accattgtatc	actttatgtgg	480	
ggggatccc	tgtttttgtt	tgttaatgtt	gacactgttgc	ttcttttaat	tggacactgtt	540	
acagtggtat	taggtgttgc	tttttttttt	tttgcgttca	catgtatgaa	aagtatgcga	600	
tcatacgaa	aaacgcgtat	gaaacaaggc	tttataatgt	tttataatgtt	tttataatgtt	660	
aaggatctta	tttttttttt	tttttttttt	tttataatgtt	tttataatgtt	tttataatgtt	720	
ttttttttgt	tttttttttt	tttttttttt	tttataatgtt	tttataatgtt	tttataatgtt	780	
ttttttttat	tttttttttt	tttttttttt	tttataatgtt	tttataatgtt	tttataatgtt	840	
ttttttttgt	tttttttttt	tttttttttt	tttataatgtt	tttataatgtt	tttataatgtt	900	
ttttttttat	tttttttttt	tttttttttt	tttataatgtt	tttataatgtt	tttataatgtt	960	
ttttttttgt	tttttttttt	tttttttttt	tttataatgtt	tttataatgtt	tttataatgtt	1020	
ttttttttat	tttttttttt	tttttttttt	tttataatgtt	tttataatgtt	tttataatgtt	1080	
ttttttttgt	tttttttttt	tttttttttt	tttataatgtt	tttataatgtt	tttataatgtt	1140	
ttttttttat	tttttttttt	tttttttttt	tttataatgtt	tttataatgtt	tttataatgtt	1200	
ttttttttgt	tttttttttt	tttttttttt	tttataatgtt	tttataatgtt	tttataatgtt	1260	
ttttttttat	tttttttttt	tttttttttt	tttataatgtt	tttataatgtt	tttataatgtt	1320	
ttttttttgt	tttttttttt	tttttttttt	tttataatgtt	tttataatgtt	tttataatgtt	1380	
ttttttttat	tttttttttt	tttttttttt	tttataatgtt	tttataatgtt	tttataatgtt	1440	
ttttttttgt	tttttttttt	tttttttttt	tttataatgtt	tttataatgtt	tttataatgtt	1478	

<210> 13

<211> 1684

<212> DNA

<213> Homo sapiens

<220>	<221> misc_feature						
<222> (1)..(1)							
<223> n equals a,t,g, or c							
<220>	<221> misc_feature						
<222> (18)..(18)							
<223> n equals a,t,g, or c							
<220>	<221> misc_feature						
<222> (63)..(63)							
<223> n equals a,t,g, or c							
<400> 13	ncggcgcgac	ccccccantt	ttaatgacgc	ctggcgtccg	gtccggaaatt	cccggggtcg	60
ccnccgcgtcc	ggccgggaccc	gtttggggaa	agttttctgt	gacaatccac	atggggaaac	120	
aaggaggctt	catccttcgt	cttcatcttcg	ctgtgtctcg	ccgttccagg	catagcttgc	180	
catgtctacgc	ctgttattgt	ctgtgttgc	ctgtgttgc	tcgttataat	tcgttataat	240	

atgacgcgtg	tctgtggc	aaagtgtac	caaaca	ttaccgc	tggttgg	300
ttatgactg	cagctaccc	tctatctca	aaggcc	ttgttgg	360	
gtgtgttcca	gaaggac	tgcacacgg	gtgttgg	ctccatgt	420	
tgctgttccc	ttctgttggc	cgacgttgc	cgcttgc	acagcg	480	
cttctctcaa	actttccgt	tctccgtata	ctcttattt	cttgggtc	540	
cagctttat	tcacccgtc	cggtggca	gacta	tgatgtcc	600	
aagagaggct	ctgagagac	ttgaa	gtcctgt	cgcga	660	
gacatgtat	aaaagggtgc	acgacgtgc	atctgag	ccgtgc	720	
gttccatcaca	agagcagcc	cgca	gttgc	gtcagatcc	780	
cggtcatgtt	tattttccct	ctgttgc	ggagggtt	ttaaa	840	
ggggaggggc	gtgttactgg	gacagggg	gttgc	ctgtatgt	900	
ttcatctct	ccctttatgg	cacccgcgt	gcca	acccatcg	960	
cgggttgc	ggggaggggc	ggagatctt	cagtgc	ttccca	1020	
gtctcaactc	gggggtgc	ggcaggaa	gagggg	ttccac	1080	
aactccagg	tctgttcc	gaaaatgtc	agtggt	ttcttata	1140	
ctgggttgc	aatgggttc	tgttgc	atagagaa	tttagatct	1200	
tgtaaaaat	atcccttcc	cttgc	atagggtt	ttatgttgc	1260	
cgcgtttaaa	gtctka	ttggacactt	tttttttt	aaatcgat	1320	
gtgtgttgc	tggggat	ctcttac	ggatgtca	tttttttt	1380	
ctagccact	gacccaccc	ggccccc	aaatgt	tttttttt	1440	
gcctttttt	tggggat	ctcttac	ttgc	tttttttt	1500	
gttttcttat	atctccgt	gtctca	gacacgtt	tttttttgc	1560	
ggacttcagg	attaacattt	tttttactc	cttgc	gttgc	1620	
gaatgactga	tgcccttctg	aaaataaaat	gtatca	tttttttt	1680	
aaaa					1684	

<210> 14

<211> 1173

<212> DNA

<213> Homo sapiens

<400> 14

ccacgcgtc	aaaatcatc	aacta	aaag	ggggccat	ttat	60
ggagctgt	atgtatgg	gaca	aggatt	gtatgtat	tctgt	120
ccttggatgt	tctttatcc	tagat	gtac	agctgtgaa	ttctgttgc	180
taatcatgt	ttaatcat	catttgggtt	tgca	tttgcattt	tttgcattt	240
cggttttca	ttaaaga	tgcttgc	ggaa	tattttttt	tttgcattt	300
cacgatccaa	tcttgc	tcttgc	tttttttgc	ttttttttt	tttgcattt	360
agaagaataa	gacaaaatc	atcttgc	tttgc	ttttttttt	tttgcattt	420
caacgttca	aaaaggata	catttgc	tttttttgc	ttttttttt	tttgcattt	480
tccggcaaga	gttgc	tttttttgc	ttttttttt	ttttttttt	tttgcattt	540
ggaaaggcagg	aggaggat	tttttttgc	ttttttttt	ttttttttt	tttgcattt	600
tttgcatttgc	ttttttttt	ttttttttt	ttttttttt	ttttttttt	tttgcattt	660
aaatgtat	aaacttcat	ttttttttt	ttttttttt	ttttttttt	tttgcattt	720
aaatgtat	ttttttttt	ttttttttt	ttttttttt	ttttttttt	tttgcattt	780
ttttttttt	ttttttttt	ttttttttt	ttttttttt	ttttttttt	tttgcattt	840
ttttttttt	ttttttttt	ttttttttt	ttttttttt	ttttttttt	tttgcattt	900
ttttttttt	ttttttttt	ttttttttt	ttttttttt	ttttttttt	tttgcattt	960
ttttttttt	ttttttttt	ttttttttt	ttttttttt	ttttttttt	tttgcattt	1020
ttttttttt	ttttttttt	ttttttttt	ttttttttt	ttttttttt	tttgcattt	1080
ttttttttt	ttttttttt	ttttttttt	ttttttttt	ttttttttt	tttgcattt	1140
aaaaaaa	aaaaaaa	aaaaaaa	aaa	aaaaaaa	aaaaaaa	1173

<210> 15

<211> 1013

<212> DNA

<213> Homo sapiens

<400> 15

ggtgacatcc	cagtgc	cccg	cg	ttcc	tttgc	60
aggaggaggc	gtgtcg	ccgt	ttcc	tttgc	tttgc	120
gggtgtgtat	cttgc	ccgt	ttcc	tttgc	tttgc	180
aggatgactt	ctgtg	ccgt	ttcc	tttgc	tttgc	240
caggagccca	gtatgc	ccgt	ttcc	tttgc	tttgc	300
ggccgcgttc	ttgtgttca	ggca	ggac	gttgc	tttgc	360
cccgaggaga	ggcggtt	ggc	ctac	ttc	tttgc	420

<210> 16

<211> 1616

<212> DNA

<213> Homo sapiens

<400> 16

ggcacgggg aacatctgg taattttagt agatcttgtg gatctcttc ttcaacaact 60
 gaaaaaaaat atttggtaat ctgtcaattt aatttttctt gaaagaaaaaaa aaaaatgc 120
 agttgcaaaac aaatgtatag ttccaaaaaa gaagaaacctt ttttgcctcc cagtttatc 180
 ttatgtttcc gcccaacgcct tgccatagcg ataggcatag ttgtggcctc aattttctt 240
 ctctggatc cgttacccctt gctgtgtgac ttgcagctc ctctcataa agggcagag 300
 ccccccctcc caccatctgg agacggatttt gaggataactt gatgttgcac 360
 tggccggatc ctaaggaccc ccctcaaaaagg tttttttttt tttttttttt aaaaatgcac 420
 ttggaaatgtt gctgtggaaa agacatcttc gaaaacgcgtc aatggttcc aaaaaaaaggat 480
 gagatgtca gggggccagag ctcccaactg agccggccatc agatcaccta agggccgc 540
 ccccaatgtt ctccatctgtg taagcaataa atgtttttcc cggcaatcc accaagggtt 600
 gtggttttgtt tatatacagc attaaatgtgg caataggatc aataccatctt gttccacaa 660
 cccatcacat atgactctaa ccctaataat aattttttcc agttgttca gttttttttt 720
 gtgttttccctt ccagaatcttcc acagatgtact tactaaatcc aacacaataa cacttcagac 780
 ttttttttttca gftcccaaaac agttttttttt aattttttttt tttttttttt tttttttttt 840
 tgccaaatgtt atttttttttt cttttttttt agttttttttt cttttttttt tttttttttt 900
 aagcatgaga gggccatgtt ctaaaggatc tagacccttctt cttttttttt tttttttttt 960
 ttatttttccatc aggatgtca gataaaatcc agaaatggccca tttttttttt tttttttttt 1020
 aaaaacaaaaaa tttttttttt gataaagcat atcccttacata tttttttttt tttttttttt 1080
 tttttttttt gtttatctga cttttttttt aactttttttt cttttttttt tttttttttt 1140
 atctggccacat tttttttttt cttttttttt aactttttttt cttttttttt tttttttttt 1200
 atctggccata tttttttttt cttttttttt aactttttttt cttttttttt tttttttttt 1260
 aaggccatgtt gtttatgtt gttttttttt aactttttttt cttttttttt tttttttttt 1320
 gatggccccc tttttttttt gtttatgtt gttttttttt aactttttttt cttttttttt tttttttttt 1380
 ttgttgatgtt tttttttttt gttttttttt aactttttttt cttttttttt tttttttttt 1440
 aggaaaattttt gtttatgttca tttttttttt aactttttttt cttttttttt tttttttttt 1500
 taaaatcttagg tttttttttt gttttttttt aactttttttt cttttttttt tttttttttt 1560
 tttttttttt gtttatgttca tttttttttt aactttttttt cttttttttt tttttttttt 1610

≤210≥ 17

<211> 963

<212> DNA

<213> *Homo sapiens*

<400> 17

```

ggccacgacg  gagttggaccc  caccgtctga  gatgttccaa  gtcggccacag  acagccatgt  60
ccccggacaca  ggcgcggcga  atggtcgacag  agacgtcccg  caggcgggaga  atacaagagc  120
tttgaagaaac  cccggacggcc  ttccgttggaa  cctgcagacgg  aaggggaaacg  ggcttggatg  180
ccggatatacc  ggcaatattcc  cacaagggtgg  acctcgatata  tttaaccctt  acgatagctc  240
tgcattgcctc  tgaagtattac  aaccctctga  tagaagaactt  ttggttggat  aqgttatacc  300
ataggatataa  gttatgttgg  gacactactt  caagagaaacc  tttgcattcc  atgcattaca  360
atctgcggac  ttgttatttca  ggaaatcgaaa  gtatatacgcc  gcaacagggtt  gcaacagggtt  420
aggggaaaaaa  aagggggggg  gggggatctt  ttctggaaaaaa  gtcatccacag  agtagaaaaaa  480
aatgtcgaaa  gcattttaac  tttgtacgttc  ttgttgatgg  ttgttgcattt  acatttttcc  540
ccctcgattt  tggaaaatgt  ctctccatcgat  tgctttttttt  ttgttgcattt  gatgttggta  600
taaaaatggat  actgtatggaa  catcaataact  agagccatgtt  cttttttttttt  aaatatttcac  660
atatgtcgta  acagaataaa  atgtttttttttt  tgatgtttttt  cttttttttttt  ggtatggaaag  720
gaactgttaaa  ttgtccggat  atgtttttttttt  ttatgtttttt  atttttttttttt  aaggatgtttttt  780
tttaatgtatg  ttttgttggtt  ttctttaggttt  ttcaatgtttttt  ttatgtttttttt  aatgttctgtttt  840
ttttatgtata  aatcatgtttt  tttttttttttt  aaaaaaaaaaaa  aaaaaaaaaaaa  aaaaaaaaaaaa  900

```

aaaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	960
aaa							963

<210> 18
<211> 1369
<212> DNA
<213> Homo sapiens

<400> 18	ccacgcgtcc	ggaaagtgg	cccgccgct	gctgggctt	gctgtggc	ggagggtgt	60
ggctagctt	ggtccttgg	aggctcagc	agggttcag	taactac	gttgggctc	120	
ctgaggagag	aaagtaaat	ggggaccctt	ttggggctt	ttggggctt	atggaaat	180	
aaagggtgtt	gggtgtccc	ttgttggaa	tgcatgttgc	atgttgc	cccccaata	240	
agcctcagaa	ccacccat	tagttttt	cccccttac	caaggat	ggcagaaagg	300	
aaatgttac	caatgttac	ttgttggaa	ccaatgcagg	ggaaatggat	ttgaatcc	360	
gggttcagc	aaacacaca	gcccggacaa	acgttacaaa	tacccgagaa	gacttttcg	420	
tttttcggcc	atggatgtt	ttgttgc	atggatgttgc	cttccat	ttacttcc	480	
acagagatgt	ttacacaaat	tttttgc	aaacgcacaa	aaggatcaat	ggcccgagaa	540	
tgaccctgtt	tttttgcgtt	ttgttgc	tttttgcgttgc	tttttgcgtt	tttttgcgtt	600	
cttttgcgtt	gacatggat	tttttgcgtt	tttttgcgttgc	tttttgcgtt	tttttgcgtt	660	
agatgttgc	ggccgttgc	tttttgcgtt	tttttgcgttgc	tttttgcgtt	tttttgcgtt	720	
tttagtgc	tttttgcgtt	tttttgcgtt	tttttgcgttgc	tttttgcgtt	tttttgcgtt	780	
ccatgttac	tttttgcgtt	tttttgcgtt	tttttgcgttgc	tttttgcgtt	tttttgcgtt	840	
ggcggttgc	tttttgcgtt	tttttgcgtt	tttttgcgttgc	tttttgcgtt	tttttgcgtt	900	
aaatccatgtt	tttttgcgtt	tttttgcgtt	tttttgcgttgc	tttttgcgtt	tttttgcgtt	960	
aaatccatgtt	tttttgcgtt	tttttgcgtt	tttttgcgttgc	tttttgcgtt	tttttgcgtt	1020	
ggcacttagg	tttttgcgtt	tttttgcgtt	tttttgcgttgc	tttttgcgtt	tttttgcgtt	1080	
aaagggtgtt	tttttgcgtt	tttttgcgtt	tttttgcgttgc	tttttgcgtt	tttttgcgtt	1140	
tttttgcgtt	aaatccatgtt	tttttgcgtt	tttttgcgttgc	tttttgcgtt	tttttgcgtt	1200	
aaatccatgtt	tttttgcgtt	tttttgcgtt	tttttgcgttgc	tttttgcgtt	tttttgcgtt	1260	
ggtacatcc	tttttgcgtt	tttttgcgtt	tttttgcgttgc	tttttgcgtt	tttttgcgtt	1320	
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1369	

<210> 19
<211> 1298
<212> DNA
<213> Homo sapiens

<400> 19	atgaaacctt	tttttgcgtt	tttttgcgttgc	tttttgcgtt	tttttgcgtt	tttttgcgtt	60
atgttgcgtt	tttttgcgtt	tttttgcgtt	tttttgcgttgc	tttttgcgtt	tttttgcgtt	120	
ccggccgtt	tttttgcgtt	tttttgcgtt	tttttgcgttgc	tttttgcgtt	tttttgcgtt	180	
ggccatgtt	tttttgcgtt	tttttgcgtt	tttttgcgttgc	tttttgcgtt	tttttgcgtt	240	
ctgttgcgtt	tttttgcgtt	tttttgcgtt	tttttgcgttgc	tttttgcgtt	tttttgcgtt	300	
ccggccgtt	tttttgcgtt	tttttgcgtt	tttttgcgttgc	tttttgcgtt	tttttgcgtt	360	
ccggccgtt	tttttgcgtt	tttttgcgtt	tttttgcgttgc	tttttgcgtt	tttttgcgtt	420	
ccggccgtt	tttttgcgtt	tttttgcgtt	tttttgcgttgc	tttttgcgtt	tttttgcgtt	480	
ccggccgtt	tttttgcgtt	tttttgcgtt	tttttgcgttgc	tttttgcgtt	tttttgcgtt	540	
ccggccgtt	tttttgcgtt	tttttgcgtt	tttttgcgttgc	tttttgcgtt	tttttgcgtt	600	
ccggccgtt	tttttgcgtt	tttttgcgtt	tttttgcgttgc	tttttgcgtt	tttttgcgtt	660	
ccggccgtt	tttttgcgtt	tttttgcgtt	tttttgcgttgc	tttttgcgtt	tttttgcgtt	720	
ccggccgtt	tttttgcgtt	tttttgcgtt	tttttgcgttgc	tttttgcgtt	tttttgcgtt	780	
ccggccgtt	tttttgcgtt	tttttgcgtt	tttttgcgttgc	tttttgcgtt	tttttgcgtt	840	
ccggccgtt	tttttgcgtt	tttttgcgtt	tttttgcgttgc	tttttgcgtt	tttttgcgtt	900	
ccggccgtt	tttttgcgtt	tttttgcgtt	tttttgcgttgc	tttttgcgtt	tttttgcgtt	960	
ccggccgtt	tttttgcgtt	tttttgcgtt	tttttgcgttgc	tttttgcgtt	tttttgcgtt	1020	
ccggccgtt	tttttgcgtt	tttttgcgtt	tttttgcgttgc	tttttgcgtt	tttttgcgtt	1080	
ccggccgtt	tttttgcgtt	tttttgcgtt	tttttgcgttgc	tttttgcgtt	tttttgcgtt	1140	
ccggccgtt	tttttgcgtt	tttttgcgtt	tttttgcgttgc	tttttgcgtt	tttttgcgtt	1200	
ccggccgtt	tttttgcgtt	tttttgcgtt	tttttgcgttgc	tttttgcgtt	tttttgcgtt	1260	
ccggccgtt	tttttgcgtt	tttttgcgtt	tttttgcgttgc	tttttgcgtt	tttttgcgtt	1320	
ccggccgtt	tttttgcgtt	tttttgcgtt	tttttgcgttgc	tttttgcgtt	tttttgcgtt	1369	

<210> 20
<211> 1967
<212> DNA
<213> Homo sapiens

<400> 20	accacccatc	ccccccacac	tgcaccaccc	cgccgcacga	ccacccaggcg	tccaaaacacc	60
acagtccggat	ccactatcgcg	gacaaccacc	accaccacccm	mcaaaacccac	cactccatc	gataatgagc	120
ccccccatgtc	ccccctggggac	cttggaaacgg	cacgcacggat	atggcaaccc	gataatgagc	180	
ttcaatggatc	ttcccgatgt	tcatcgtaaa	gaaatgtatgt	tcttcagggt	gggactgac	240	
actgcgatcgt	tcatcgaaag	ggcttcatcggt	atataatcgat	aatggatgt	atttgacgac	300	
tcatacgccac	caacccacac	tgatcgcttcg	accactgtca	ccacccaggcg	gggtgtatccca	360	
gaggaaaggcg	ccatcgatcc	ctttcgatggaa	gaagaatggtt	atctcgctgg	aaggaaacccga	420	
ttttgtgtcgc	cttcatcgatc	tgatccaaat	aaagacccat	cggcccgctt	cttcttcgtact	480	
gatgcactgg	atcaatccca	atggacacgc	ctggatggaaa	tcatcccaaa	tgaccatgtgg	540	
aaaggatgtac	tgccctccca	gcatgtcc	cgcaacatcg	cgtgtgtggc	ctgtggaaagg	600	
tgccatcgatc	ttgtcatgtt	ggactggac	aaaggccacc	caggagatgt	ggtcacagggt	660	
tacttgttttgc	acatgtcgatc	ctatcgaaac	ttcatcgaggaa	acaatgtgttc	cactcaacgtt	720	
tcatcgatcaat	tcatcgatcc	cattggaaac	tcataaggccca	acaggaggta	tatttttttaaa	780	
gtgcacgcac	aaaatctccca	tggtcgatcc	cattatcgcc	cttcgggttc	attttgcaccc	840	
gaatcgatata	atccctgtcgt	ttttgtggagg	ccccccgggg	tggtggctat	ccgtatccca	900	
ttcgctttca	aatatcgatcc	cagctacacac	gactggccat	gacggccataa	ttgtggaaaggc	960	
acgtgggtatc	gaaatgttgc	ggggatgttt	ttttgtgtat	ttttgtgtat	ttttgtgtat	1020	
tcctcgataca	acctggaaaga	tacatttcac	acattttggaa	ttttgtgtat	ttttgtgtat	1080	
gaccatgtcc	aattttgttgc	ttcacccat	ttttgtgtat	ttttgtgtat	ttttgtgtat	1140	
gaaggccctcc	ctactatccat	aggcttacat	ttttgtgtat	ttttgtgtat	ttttgtgtat	1200	
ggggaaacatcc	gttttttttttt	cccccttactac	ttttgtgtat	ttttgtgtat	ttttgtgtat	1260	
atccctggatc	atgttttttttt	acaggacgggt	ttttgtgtat	ttttgtgtat	ttttgtgtat	1320	
ccaaatctatgt	cgccatcgatcc	gtgtgtggatc	ttttgtgtat	ttttgtgtat	ttttgtgtat	1380	
tcatgggtccat	ggaaaggatccay	atggatggac	ttttgtgtat	ttttgtgtat	ttttgtgtat	1440	
catggccatcat	tttttttttttt	gacaatgtac	ttttgtgtat	ttttgtgtat	ttttgtgtat	1500	
tctactttttt	tttttttttttt	ttttatgtatc	ttttgtgtat	ttttgtgtat	ttttgtgtat	1560	
attcatgtgt	attttccatggac	tttttttttttt	ttttgtgtat	ttttgtgtat	ttttgtgtat	1620	
atagatcgatc	cacgcgttttgc	tttttttttttt	ttttgtgtat	ttttgtgtat	ttttgtgtat	1680	
tttttttttttt	ccaaatctatgt	tttttttttttt	ttttgtgtat	ttttgtgtat	ttttgtgtat	1740	
gaatttttttttt	aaaggaaatccac	tttttttttttt	ttttgtgtat	ttttgtgtat	ttttgtgtat	1800	
acttacccatc	tgctgtatgtat	tttttttttttt	ttttgtgtat	ttttgtgtat	ttttgtgtat	1860	
ataatgtatgt	atatcgatcat	tttttttttttt	ttttgtgtat	ttttgtgtat	ttttgtgtat	1920	
cttataatgtt	atctttgttcac	tttttttttttt	ttttgtgtat	ttttgtgtat	ttttgtgtat	1967	

<210> 21
<211> 850
<212> DNA
<213> *Homo sapiens*

```

<400> 21
ggcacgact ttgacccatt caaggatgtc tctgcctgga gaactagatc ctgactcagt 60
ggcgcatacg gttctccccc agggtgtgc tgaatccatcg ctcagaagca gcgtgcgacc 120
catctttaact cccatgaaagg ttgtttatgtt actctgttgc ctagttgtt gcaactatgg 180
ttaaaaatag aggactttgtt cagatgtc ttaactgttc acactgtggtt ttgtgcac 240
ataaaatgtt tgatgttggg aggcgcggaa gtcataaaat ttgcctttaaa ttatgttgg 300
tactcttagag aacgtgttgc ttgtatgtt gtatgttgc ttgtatgtt gaaactgtt 360
attgaacgtt agatgttgc ttatggacaaat ttatgttgc ttatggataa atatgttgc 420
ttaaaaatgtt ttatgttgc ttatgttgc ttatggataa atatgttgc ttatggataa 480
tttaattgtt tgcttaatgtt gttaaaaatgtt tgactgtatgtt ttatgttgc ttatggat 540
ctttttgttgc ccatcttcag tatggaaaat gtcaatgtt ttatgttgc ttatggataa 600
tttagatttt attgacatgtt ttttttttttca taactcatgtt aattgttcat agcaaccaaa 660
agtcaagaga gtgtatccca gccaatataag aaaaatgttgc ccaagcagat tgcagatgt 720
ataaaaaaccatc ttgtggatgtc ttatcatatgc atccggaaatc agtggatgtt aatccatgt 780
aagtcttcaatc ggaagtatcc ttctgtgtgtt aaacttggta caagtgtact accaaaaaaa 840
aaaaaaaaaaaaaaa 850

```

<210> 22
<211> 1205
<212> DNA
<213> *Homo sapiens*

<400> 22
ccacgcgtcc gggttttctt tccatctgac atctgccagc ctctctgaat ggaagtttg 60
aatgtttcca accaatccag ctcacttctt aataaagaat ctatgacatt aatgtatgt 120

gatgttataa	gcgcgttgc	gagagggtgt	tttcttcaat	cgtacaaaag	tactgagaca	180
atgtttaggg	ttgtttttt	aattttttc	ctggtaggc	aacaagaacc	atttcaatc	240
tagggaaaac	ctccccagca	ttgtctgtc	ctggcaaac	attgtcttg	agttaaatgt	300
cctaattccc	ctgggagaca	tacgcataa	ctgtggaggt	ccgagggat	gagaaggat	360
acccaccacc	tttcaagggt	cacaagctca	ctctctgaca	agtcaaaaa	gggacactgc	420
ttcttateccct	ccaaatggaga	gattctggca	accccttgc	agccccagac	tttgcacacta	480
gcccacccca	agaagactgg	aaagagacat	atcttcgc	tttttcaggaa	ggcgtgcctg	540
ggaaatccagg	aacttttttg	tgctaaatgg	aaaggccctgg	ctaaaaatgt	ccactatgg	600
gtgcactcta	cagtttttga	aatgttagga	ggcagaaagg	gcagagagta	aaaaacatga	660
cctggtagaa	ggaaaggagg	caaaggaaac	tgggggggg	ggatcaatta	gagaggagg	720
acccgtggatc	cacccttcc	cttagtccc	ctctccatc	accaaaaggag	cactttctca	780
atcatgcctt	ccccaaagggt	ggctggggaga	aggttttaaa	acaaaaaaatc	caggagtaa	840
agcccttaggt	catttttttt	tttggagacaa	actgtctgc	aaagggtgc	agggagact	900
tgtgtcagg	agtccagccg	tccagctgc	gggtgttagt	tcttgggggt	tgccattttgg	960
gcccacccgc	tcttcgtgt	cagaggctca	tttttttttt	ccacacacaa	accacacaca	1020
cacaacccaca	cacacaaatgg	ggggcaacca	catccagttac	aagtttttac	aatgttttt	1080
atgttccctt	ttttttttca	atgtttttgc	cttttttttt	tttttttttt	tttttttttt	1140
atgttcttctt	gactgttaat	tgtgtatgt	atgtcaataa	agtcccttgc	ttatgtggaa	1200
aaaaaa						1205

<210> 23

<211> 1167

<212> DNA

<213> Homo sapiens

<400> 23

ccacgcgtcc	ggaagaaggc	ctaattccca	acctgggacc	cagagagaga	cataagatata	60
ccagagatgt	atgcaccaaa	aaatgtcaat	tttataaagg	acagtccagaa	aggcgtgtaa	120
gagacaaatgt	gagagaaact	aaatggaaat	aacttgc	ctccaaaaatg	aagatgtgc	180
ctcattttcc	ttatgtgtca	gaaaacgtt	ccacttgc	ataaaaggct	tactatagag	240
cagcccttgt	aatagaacta	caagacttat	ataaaatcc	ttttgtggat	gaaaatggaaa	300
ctccataaaga	atctatgtca	tttacccctt	aatttataat	ttttgtttttt	ttttatgtttt	360
atttttgtt	ttatgttgg	tttttttttt	aaatttttgt	atttttttttt	atttttttttt	420
taatgtgtt	taattttttgt	tttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	480
tgacttaatcc	aaatgtttttt	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	540
gagaacattt	aaatgtttttt	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	600
ataatcatgg	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	660
ttgtatctttt	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	720
atttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	780
tttatatagat	aaacaaaggat	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	840
ctaaaggctt	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	900
tcaagggtgg	ctaatgttca	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	960
taagggtttcc	ttatgttgc	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	1020
tgctggatgt	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	1080
gctgtatgtca	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	1140
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1167

<210> 24

<211> 929

<212> DNA

<213> Homo sapiens

<400> 24

gagaagggtgg	ttttttttat	aaacatggac	ataactcaatc	ccaaagggtgt	atgagatgtc	60
gaatttttttt	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	120
tggggccatt	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	180
ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	240
ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	300
ggagactgtt	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	360
ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	420
ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	480
ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	540
ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	600
ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	660
ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	720
ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	780

tttaacttatt

ttttttttttt

ttttttttttt

ttttttttttt

ttttttttttt

ttttttttttt

ttttttttttt

cgagcgtggg	attgtgtggg	gttttagtgct	aaatacttca	ataaaagtctg	ttttttgtga	840
ttggctgtaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	900
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa				929

<210> 25
<211> 397
<212> DNA
<213> *Homo sapiens*

<210> 26
<211> 949
<212> DNA
<213> *Homo sapiens*

<i><400> 26</i>	gaggcccttc cccattttctc ttctcaactt atccccccacc gaagagggtct cagaaaaaaag	60
ttttttataa tatattttggg gtccggaaaaa tacaaacatc acaaagaata cgatatcccc	120	
agcctttaatg tactggggacg ttgttcgtgt agttttttttt ccaaaggatttt ccctcatatcg	180	
ggaaatgttag aagtggatgtt tgaaatggta ttgtcgtgtga aaccctggaa aaaaaacaaa	240	
agccccatgc aacacgttcc gggtctgtttt gtatagatgtt atttcagtcga cttagggggaa	300	
cacataaaaa cactcgagggt gtgtgtgtgtc aatggggcaat ttgttcctt tggggggatc	360	
atgatataaa catctagaaac caaaaaggta aatccggatc ttgttcctt tggggggatc	420	
ctttggggaaa agatttttttt caatagacta taatgttac ttgtttagg ttgtttagtct	480	
gcctttttttt cttttttttt gtatttttttt ttacaaaatgtt tggggatcg aaaaaaaatgt	540	
aaatgttggacc tgctttttttt tttagatgtt gtatgggtt ccccaacacaa actttttttttt	600	
atcatcgatc aaacatataatgatagatgtt tgaaaatgtt ttgttttttggggatcg	660	
tgaaatatttcg atagaaaattt tgctgtccat tcatacatcc ttgttttttggggatcg	720	
taaaaaatggg ggggtttttt gttttttttt ttatattttatc ttgttttttggggatcg	780	
ggacccgtt gttttttttt ttttttttttt ttatattttatc ttgttttttggggatcg	840	
aagtggccca caatgttcac ttccctccctc taagaaatgtt acatgttggat ttcccaacct	900	
accaccccttgg ttgtacatgtt gaccccttc tccaaaaaaa aaaaaaaaaaaaaaaa	949	

<210> 27
<211> 1053
<212> DNA
<213> *Homo sapiens*

<400> 27	gcaaaaaggaa	aaattcaaaa	tttagaaaaa	acattagaaa	tgtaatatg	ggatattttt	60
gacttaaagc	attcagaaaa	gttaatgttt	taacacgata	tgtgattata	gaattctatt	120	
catatatgtg	tttcacattha	tacatcttgc	tatactttgt	attttataat	ataatctgt	180	
tagataataa	atgtgttcat	atttgttca	aacttactta	aaatttcaat	atttaaaata	240	
tttttgaatc	actgggtttc	gttaatggtc	atcatagatg	agatgttgg	ccatgttagca	300	
tataatataa	gatgttctt	cttcaccccc	ttttaaactc	cttcaagcat	tgtcttact	360	
gggggttgc	ttggggaaaac	ttacttctag	atactaccat	atatctgaaa	tagtagagg	420	
ggatgtttaa	aaaatttca	aaataatcat	gttatacttt	ttttgttatta	ccactgttag	480	
gaaaatcaagt	catgtgcaat	ataatgacgt	ttttgttcatt	gagaccacca	ttgtgtacag	540	
tgttccatca	aggatgttgc	tgaaaaattc	ctgtgttcgc	ctagtgcac	tgtggccatc	600	
glaaacgcocat	acgacgacac	gttactcacc	ttttgttcgt	gtatgttgc	ttaaacaaaa	660	
tgtgtcgcaca	gtcataaaaa	atagatagac	aatgacaata	atgtacagg	tatccataat	720	
cttggataata	aatgactatc	tttacagggtt	atgttggat	ttccattttt	gtcattttt	780	
tgttaatgtac	tccctactaat	tataaaaaaa	aaaaggftaa	ctgtaaaaaa	gcctcaggca	840	
ggttcttttg	gaggccatcc	agaagaaagc	atgttacca	tagggatga	cagcctttag	900	
tgttgttattt	ccccctgaaga	cttctttagt	ggacaggata	ttggggggaa	acagactgtac	960	
atggatgtatc	ctggccctgt	gttggccctg	gtcaatgtgt	gtgtgtcc	gtttttaaaca	1020	
atggatgtatc	aaaaatgttt	aaaaaaaaaa	aaa			1053	


```

cacaaggttc atgtcatttt caaacacacac ttcttattttat cttttatgtat ttttttaaaaaa 720
tttggaaatcca gaatttgggg tttttttaaa aaaaaaaaaa aaaaaaaa 767

<210> 31
<211> 2116
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (4)..(4)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (7)..(7)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (16)..(16)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (25)..(25)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (35)..(35)
<223> n equals a,t,g, or c

<400> 31
cttcnnnctc tcctcntgaa aaccnctata gggantgtg gtacgcttc aggtaccggc 60
ccggaaatcc cgggtcgacc caaggccatc ttatggacc ccaagaatg caaatgtat tgaaagggtc 120
acccacagt aaggggccatc ttatggacc ccaacaacac acacacaatat gcaaataactc 180
caacccaaatcc agttctgtc ggcggccacac aataataatc atccaaattt caaagtctt 240
atggaaactca actcccttgc ggttggaaatg aataataatc atccaaattt caaagtctt 300
aaaccacattt gggaaatctaa gtatggttc tcgtatatacc aatgcacat atttttctggc 360
aaatggaaat tcccttcccc agacaaatataa aactgt:taca agggacgcata ctgcacac 420
aaatctggg aaatccctgc aagaaaaaqag aatccctact atcttggttc ctgcacac 480
aaccacaatcc eggcacatcc aacatccaaatg cttttgcac ccacatattt tgacgttgc 540
atatcttc tacccttgc aacaccctcg ccattctgc taaaactgtgc ccatatattt 600
agacgttgc caataatattt ttggacccatc aagtctggcc tccccaggccatc 660
cttccttgc ttttttttc ttccgcattt ctatgtgc tccatgtatcc 720
ttatcttgc tggtctcacc gctgtctgc cttttgcgtt tgagggtccatc aacatgttgc 780
gggtcgatc caactacca gcaaccctgc acggggatgg cacaacaaacag ccactaaaaaa 840
agtaatttgtt gattacaattt gatctggccca ttccctttgg tgcacccatc ttctttttgg 900
tagaccaaaatcc tcatgtatcc tgatccctc tgccatgttc tgcacccatc ttgcgttggg 960
atttggacaa agtgcacctt ttatagagg ttatttttt cccattctc cagcttccttc 1020
tttgcgttt ttcgtatggcc catatgtca gatgcacata ctcaacacc 1080
aattttgtcc taccatataa ttatttttt gttaaatgtt atggaaat tgcgttgcata 1140
aaatcttc tccatgttcc agtgcacctt gttatgtatc tattttttatc ctgcgttgcata 1200
ttatgtttt ctgttgcata ttttttcat tattttgtat tggggacccatc ttgttgcata 1260
atcatatccca gtcgttgcata gctcaatttc tatttcaatc ctatataatc aatttttttt 1320
ccccaaagggtt gaagaaaaaa atggactact tcaaaacaaa caccatccatc attttttttt 1380
aaagatgttc ttccacaagatc tgctcagaaat cgcgcacttgc agttctgc tttttggggaa 1440
ggatgttgc tttatgttcc tcaactgtt ttgcacatcc aaaaaggccatc tccatgttgcata 1500
ttggatgttgc agatctccatc ttttggccca tgaatctccatc atactgcaga aacatcttccaa 1560
cgatccatcc aacaaatccatc acggccatcc aggttgcattt ttttttttttgcata 1620
ttgttgcattttt tttatggaaa cccaaacccatc tggttgggtcc tgcacatccatc 1680
ccccaaatccca ggttgcggccaa gagatgtca gttatgttccat gaaaggccatc agagggttgc 1740
ttgttgcattttt tttatggaaa cccaaacccatc tggttgggtcc tgcacatccatc 1800
ttatgttgcata agtgcacctt atccaaacatc agtgcacatccatc aaaaaggccatc tccatgttgcata 1860
ttatgttgcata ccataaactgtc ttgttgcattttt gtttttttttgcata 1920

```

<210> 32

<211> 1564

<212> DNA

<213> Homo sapiens

<210> 33

<211> 762

<211> J82

<212> DNA

-215-

<210> 34

£210> 34

<211> 86.
<212> DNX

<212> DNA
<213> HOM

<400> 34
ggcacgagag aaaacaggga tttccctct ctagatccct gccaggtecc tctccaggag 60

gccccctcgc	tctcctgaag	ggtgtgtccct	gagggtctgc	ccagccttgg	cacgagagggt	120
tgttgcacgc	ccctgcagg	gttccttc	aaggcccct	gcacgcata	aactggccct	180
ccggcactc	aaaataagt	ctttgggg	tggcttacc	ccatatactc	ccccaggccac	240
aactcttgc	cttcgactc	ttgtcgat	ggccagacc	ttgtttctct	acccatgtat	300
tgcatgagac	cttgcataac	tgtctccctc	ecagatctt	gccaaggct	ctgttgagac	360
ctgggtttct	tgtagcccc	tctccctctg	gcccacgtca	cagctgtgg	gagggtcccg	420
gcccaggctg	gggtgggg	aagctggcc	ctgctgtgg	tggcgttgg	gacccatggg	480
ctcccttctg	ggttggccct	gtggcctctg	ggctgtatgc	ctctgggggt	tagggaaagag	540
gccccggagg	ttatggggat	ggggagccgc	agggggagag	agggggccct	gacaaaaggct	600
ttggggaaat	gggggggttg	aggccaggcc	ggggaaaggca	agatcagcc	ttggagagag	660
caccctgggg	cttcctgtc	ggggatcac	cacacttgc	cgactctgg	ccccaggccg	720
gcccggatgt	gggggggg	ccctgtgtt	actgtcgta	gaaaaggctt	780	
gtgttttgtt	tttttttttt	tgtgtttgtt	ttggcttgg	tgtttttttaa	840	
ggggaaaaaa	aaaaaaaaaa	aa				862

<210> 35

<211> 1499

<212> DNA

<213> Homo sapiens

<400> 35

gtgcaactgt	cagtgcgtgt	gtgttttag	gtctcatacc	cgtgtgcgcc	agcaggacc	60
cagctgtac	cggtgtgtcc	agaagaagt	ggtggttga	gacccacccg	gcagggttcac	120
ttgggggttag	aggccatgtc	tcagcactga	cttctgttac	atgtcaggga	ttttttaggc	180
ggcaagctca	gggtggacagg	catgtttat	ctgttccca	tgtcaagttc	agccccagac	240
tgactttctt	aggctcacac	cgggactca	ccccatccaa	ggcgtgtcc	tggactctca	300
ctgtgtcc	cgaggccgag	gggtggatgg	tggtcatctt	ttggccggcg	ttgggtgtcc	360
tggtggaccc	ggctgtggat	tctctgtttc	ttagtcttct	atggaccat	tgltctctgt	420
tggtggctgt	aggatcacac	ctgggggttc	ctgtccgttg	gcttaatgt	aaacggacc	480
ccatgtctca	cagccctgt	taacccgggg	ttggccccag	aaggccgtgg	gcgagggtgg	540
gcacccgggg	tttgggttgg	ttatgtggaa	tatcatgcac	agccccagag	ggccggcaat	600
tcagggtttcc	ttttgtccgc	aggttacttgg	ggcccaagcc	ggccggccgg	aggggactcag	660
ccccctccgc	aggccaggaa	ggtcccaag	agaggccct	ccttcaggca	ctccccagcc	720
cacacccgtca	gcactgggg	caagactaa	aaacacccg	ccttcaggaa	gacagcttta	780
tcttgggtat	ccggatgtct	ccaggccaaat	ttatgtggaa	acataaagatc	tctaaatctg	840
aatttttacat	ctgttagctt	acagagggcc	aaataatgg	aaacggggct	caggagggaa	900
ccaggcgtca	gctcaactgt	agggtgtcga	ccaggccaaac	acaggccag	ccccctggcc	960
caggccaggc	aaaggccaggaa	aaagggggg	cggttgggg	acccacccctt	ggctcccccgg	1020
aaggccaccc	gtatgggggg	ggatgggggg	ggggcttgg	gcaacccctt	gacgggttct	1080
ggatcgggg	gaggccgggg	gtgtatgggg	ttccctcagg	gtggggggac	tttctcttgg	1140
tctcagaccc	acccccccttc	agtcctccaa	ccctgggttgc	ccctggctt	gaggacagg	1200
ggggaaatctt	cctggggccg	gttacaaagg	agatgttca	ccctggccca	gggtgtctt	1260
gggtggcttat	gaactcgct	tttgggttgc	agcaatcttc	tgcacccctt	cctgagccct	1320
ctgtctcttc	gaaccctgtt	ggccgggttgc	ggacgggttgc	tctcttgggg	ttggggccctg	1380
ggccggccagg	cacccggcc	ctgtgtgtt	gacgtttagg	caaccccttgc	tttcgaatatt	1440
tataacaata	aatgtctgg	caacctgaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1499

<210> 36

<211> 2791

<212> DNA

<213> Homo sapiens

<400> 36

ccacccgtcc	ggattacatg	tagttattga	gaatccccc	gaatttgcgt	gtttaatcat	60
gaatgtctaa	tttttttttt	cattatgttgc	aatatgttgc	attaaatgtt	cattttgttt	120
gcatacaca	gttttttttt	gtatgtttt	cttttttttt	atcatat	atttttgtat	180
ttggaaatgt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	240
actttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	300
gcaatattat	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	360
tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	420
tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	480
tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	540
tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	600
tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	660
tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	720
tctgtgttta	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	780

ggttctatgt	tttcagttt	ccaaagtctgt	ttactgcagt	gaaattcatc	aaatgtttca	840
gtgtgtttt	cttagccca	tcattttactg	gctatttttt	tatgtacacc	tttaggattt	900
tctgcctact	ctatccagg	gtccaaatgt	tatccatcat	tttacaatag	ccctttcagt	960
ttctattttc	ttttttccat	aaattgcct	catgtccaa	tgtcagttt	gtaaatgtgt	1020
gtgtgtgt	ctgtgtgt	gtgaatttga	tttcaagag	tgtgactt	ccaaatttgag	1080
agattaaata	atttaaatca	ggcaaaacatt	tttcatttga	tttccatgt	tttccatgt	1140
aaaaatgtt	atccctggat	accttgcaca	tacagtaatg	aatcttggat	attaatgtaa	1200
ttgttagtag	cattttgtat	ttgtttttaa	tgaggatattt	tcaaaagggt	gcattaaacc	1260
aaagtggca	tactggaaatg	ttttatatac	agtttttttt	ggctactgtat	ggacaaaaaa	1320
tgaaaaatcc	ttccatgttt	gagttttttt	tttttttttt	tttttttttt	tttttttttt	1380
tgaaaaatcc	aaatcgaccc	acggcgtccgg	attacatgtt	tttttttttt	tttttttttt	1440
attcgtgg	tttacatgtt	atgttttttt	tttgcataat	tttgcataat	tttgcataat	1500
taaagtaca	tttttttttt	tttgcataat	tttgcataat	tttgcataat	tttgcataat	1560
cacttttttt	tttttttttt	tttgcataat	tttgcataat	tttgcataat	tttgcataat	1620
aaactttttt	tttttttttt	tttgcataat	tttgcataat	tttgcataat	tttgcataat	1680
acagttgtct	tttttttttt	tttgcataat	tttgcataat	tttgcataat	tttgcataat	1740
ttatcatgtt	tttttttttt	tttgcataat	tttgcataat	tttgcataat	tttgcataat	1800
attatgtat	catttttttt	tttgcataat	tttgcataat	tttgcataat	tttgcataat	1860
aaaaatgttt	tttttttttt	tttgcataat	tttgcataat	tttgcataat	tttgcataat	1920
ggcgtttttt	tttttttttt	tttgcataat	tttgcataat	tttgcataat	tttgcataat	1980
aaactttttt	tttttttttt	tttgcataat	tttgcataat	tttgcataat	tttgcataat	2040
aaactgtttt	tttttttttt	tttgcataat	tttgcataat	tttgcataat	tttgcataat	2100
tttttttttt	tttttttttt	tttgcataat	tttgcataat	tttgcataat	tttgcataat	2160
tttttttttt	tttttttttt	tttgcataat	tttgcataat	tttgcataat	tttgcataat	2220
tttttttttt	tttttttttt	tttgcataat	tttgcataat	tttgcataat	tttgcataat	2280
tttttttttt	tttttttttt	tttgcataat	tttgcataat	tttgcataat	tttgcataat	2340
tttttttttt	tttttttttt	tttgcataat	tttgcataat	tttgcataat	tttgcataat	2400
tttttttttt	tttttttttt	tttgcataat	tttgcataat	tttgcataat	tttgcataat	2460
tttttttttt	tttttttttt	tttgcataat	tttgcataat	tttgcataat	tttgcataat	2520
tttttttttt	tttttttttt	tttgcataat	tttgcataat	tttgcataat	tttgcataat	2580
tttttttttt	tttttttttt	tttgcataat	tttgcataat	tttgcataat	tttgcataat	2640
tttttttttt	tttttttttt	tttgcataat	tttgcataat	tttgcataat	tttgcataat	2700
tttttttttt	tttttttttt	tttgcataat	tttgcataat	tttgcataat	tttgcataat	2760
tttttttttt	tttttttttt	tttgcataat	tttgcataat	tttgcataat	tttgcataat	2791

<210> 37

<211> 1013

<212> DNA

<213> Homo sapiens

<400> 37

ggcacgaccc	tgaagaata	tccatggatt	tgattatagg	ttttcccta	gatgtgtgg	60
agggtttttt	taatattca	aatatgcctt	tattgcctt	ttaaaacccc	aaagattatg	120
aattctgtaa	cacatccgg	ccagcgggtt	tttgataaacc	gggtgtgg	atttaaaggcag	180
cctcacatca	ttgggttgcact	tttttttttt	tttttttttt	tttttttttt	tttttttttt	240
tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	300
tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	360
tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	420
tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	480
tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	540
tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	600
tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	660
tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	720
tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	780
tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	840
tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	900
tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	960
tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1013

<210> 38

<211> 718

<212> DNA

<213> Homo sapiens

<400> 38

ggcacgacac	cccccccccc	cgtgaccc	acccacactg	gcttgggagc	agggatcttc	60
------------	------------	----------	------------	------------	------------	----

tttgcacata	tcttgggtac	ttgggctgtt	gccttggctg	cttactctta	cttcggata	120
aaaggagaa	caatcggtt	ccagcattt	gagtcggaa	aggacattaa	tgttcagct	180
cttggcaagc	agcaggctga	gaatatctcg	aaccccttg	atgagagcac	aaacctcgat	240
cccccaagac	cttcctacga	ccccctcagc	gactctgaag	aacggcagct	tgaggccaat	300
gacccttga	ggacactgtg	agggctgtga	cgggagatgc	cagccatcac	tcactgccc	360
ctggccatc	aactgtgaat	tctcagcacc	atgtgcctt	taggaacgta	aagtccctta	420
agcaactaga	agccatcacct	catctctcg	gctgatctgg	gggttggttc	tgtgggtgag	480
agatgtgttgc	ctgtcccac	ccagtagcag	tatgtatccc	gaccctttgg	cttttcttcc	540
tttgtactct	ttagatgtga	agccctcgctg	tttgtatccc	atgtatggta	actgtgatct	600
ttttccctgt	tttagatgtga	agccctcgctg	tttgtatccc	agcccttagc	ccagtgccctg	660
acacaggaaac	ttagatgtga	aaagggttat	ggaacagaaaa	aaaaaaaaaa	aaaaaaaaaa	718
<210> 39						
<211> 374						
<212> DNA						
<213> Homo sapiens						
<400> 39						
ggcacgagag	cttattccat	gaaggagtaa	gtggctgtcc	actccctttct	gctgaaactc	60
ttttctgtcc	tttgaccta	gtgtggaaatg	ggagcagggt	cacagtgaaa	gagctgaatc	120
tcccccccca	ccccacactgc	agcaggctgc	ggctggccga	cttggtaattt	ggcgagcagg	180
aacacagcag	caagctcgcc	cacccctact	tgctcagttt	gatggctgtg	tgtcttccc	240
aggacatgtaa	gaaaaccgc	cttggatcagc	agcgcatacc	tatcgccaca	ttgttcatgt	300
ttccatcatg	acaggataaaac	tgctgtttcc	gtggattttc	aaaaaaaaaa	aaaaaaaaaa	360
aaaaaaaaaa	aaaa					374
<210> 40						
<211> 1410						
<212> DNA						
<213> Homo sapiens						
<400> 40						
ccacgcgtcc	ggtcccttagg	agataaagagt	atcttgcaca	gcagggtgcag	gttccccagc	60
agtcgcggac	agagtcggat	ttttgtgcca	tctgatctcg	atgtctggag	agatagccat	120
gtgtggacgg	gaatttggca	atgacaaaggc	caggagggcc	agcgtgggtt	gcagggtggcc	180
atgttcctgg	taacggacgtt	ttttgcggcc	atgttcgttc	gaactgtgtt	gtctgtctt	240
cttcatcttc	atccgggtcc	tgctggctat	tggaaatgtt	acggacactgt	ggctgtgtcc	300
ggccggccctt	ggccacggcc	ttttgttggg	gtctgttgg	gcccacgtgg	gaaatatcag	360
ttgttgcacac	ttaaacccttc	cggtgttccc	ggcggccatcc	ctgtatccgg	gcctcaaccc	420
gggtatgtac	cttcggctact	gggttccaca	ctgtgtccgg	gggtatgtcg	gggtgtctt	480
ggccaaaggcg	gtgagtcctg	aggagaggtt	cttggatcga	tctggggcg	cttttgtgac	540
agtcccaaggag	cagggtgggg	ttttgtggca	gagatccatcc	tgacgacgtt	600	
gttgcgcctt	gtgtgtatgc	ttttgtccat	caatggaaag	aaaaaggccc	ctctggcccc	660
gtttccatcc	ggcttgcgtt	ttttgtccat	tatcttggct	ggggggccctg	tgtctggagg	720
ctgtcatgtat	ccccggccgtt	ttttgtggacc	tgccgttggt	gccaacactat	gaaatccca	780
ctggatcttc	ttttgtggggc	cactgttccc	ttttgtggct	tttggactctg	tcattatggt	840
cttcatgttgc	gttgcgttgg	ttttgtggcc	ttttgtggct	tttggactctg	tcattatggt	900
gattctgtcg	gttttcagggt	ttttgtccatc	acccgttccca	gactgtggac	aggggaggatc	960
ctgtatcc	ttttgtggcc	ttttgtccat	ttttgtggcc	ttttgtggcc	ttttgtggcc	1020
ctgttttc	ttttgtggcc	ttttgtccat	ttttgtggcc	ttttgtggcc	ttttgtggcc	1080
tcatcatgtat	ttttgtggcc	ttttgtccat	ttttgtggcc	ttttgtggcc	ttttgtggcc	1140
accacaaacac	ttttgtggcc	ttttgtccat	ttttgtggcc	ttttgtggcc	ttttgtggcc	1200
ctggatcttc	ttttgtggcc	ttttgtccat	ttttgtggcc	ttttgtggcc	ttttgtggcc	1260
ttttgtggcc	ttttgtggcc	ttttgtccat	ttttgtggcc	ttttgtggcc	ttttgtggcc	1320
ttttgtggcc	ttttgtggcc	ttttgtccat	ttttgtggcc	ttttgtggcc	ttttgtggcc	1380
ttttgtggcc	ttttgtggcc	ttttgtccat	ttttgtggcc	ttttgtggcc	ttttgtggcc	1410
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa
<210> 41						
<211> 1493						
<212> DNA						
<213> Homo sapiens						
<400> 41						
tcggccaccac	cgccggaa	taatgtatgc	aaaataactct	aacctttctt	tggagagtca	60
taacttctcg	ctgactgttt	cacccatcc	aaatgtgtcc	atccggaa	taatgtatgc	120
aaaataactcc	aaacctttctt	ttggaaatgtca	taacatctca	ctgactgtac	atccggat	180

ccggactggaa	aaaatataatca	ctttagaacg	accccttcgt	gttagaactca	catgtcagg	240
caacaatctt	ggggatgtga	atttcgaaat	tgtgtttttt	aaaaaaaagggg	atggacaact	300
taaaggatac	catgtcagt	ccccacggg	atccctggat	ccccggatca	atgtttccat	360
cattaatagc	gaacaaactgg	gaagcttac	tttttttttt	aaaggggaaa	aggaaacggag	420
ggggcatttt	aatttgcggg	ttcccttggat	tttttttttt	tttttttttt	tttttttttt	480
tgtggggat	tccgttgtct	ttgtgtgtaa	tttttttttt	tttttttttt	tttttttttt	540
ctggtagacat	ggtaataggaa	gtgttttttt	tttttttttt	tttttttttt	tttttttttt	600
tgcgtcaat	ggaaacaaacgg	cccccccccc	tttttttttt	tttttttttt	tttttttttt	660
cgatataaggaa	tctttttttttt	cccccccccc	tttttttttt	tttttttttt	tttttttttt	720
ttaactgttt	gtgtataatgtt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	780
aggatattttt	ttatgttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	840
ggcacatgtat	gtatggggat	tttttttttt	tttttttttt	tttttttttt	tttttttttt	900
cggttttttttt	aaataatgtccc	tttttttttt	tttttttttt	tttttttttt	tttttttttt	960
aaacatctgtt	tcaaggatggaa	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1020
tccctgtttttt	aaacatctgttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1080
cagcagtttttt	tttgcataatgg	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1140
gatttttttttt	catttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1200
ggataacttttt	tttttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1260
tttagtttttttt	atgttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1320
aaaaaaatctt	tttttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1380
atattttttttt	taattttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1440
attttttttttt	aaaaaaaattttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1493

<210> 42

<211> 1557

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) .. (1)

<223> n equals a,t,g, or c

<220>
-881-

<221> misc_feature
<222> (8) (8)

<222> (9)..(9)

<223> n equals a,c,g, or d

220

<222> (1347), (134

<223> n equal

<221>

<222> (1527) .. (152

<223> n equals a,t,g

<221>

<222> (1533) .. (1533)

<223> n equals a, t, s

$\leq 400 \geq 42$

natgcggca
gtatccggat

agagaagtaa	tacctacctt	gtaggcgctgt	tgtgaggatt	aatgaagta	atgcatacag	780
tgcctaaaca	agtatttaac	atcatattt	ttaaaagctc	atgaaaattt	agtttttctt	840
ccttccccctc	tttctatttt	ctctccgtt	cccttttctc	tcctccctct	gcctctcttc	900
tccttcagat	gttagtctaa	aacagcacct	tggatctaag	cagcacctt	gagaaaagaaa	960
agactgttc	aagaatgtct	agtggcacct	cccttccgtt	tggtgcctaa	atgcctagg	1020
tggatcaata	gtttaatttt	tttatttgaac	tgtttaat	tgactatgg	cttacatca	1080
cttttactgt	tttctgtata	tttactttt	cttgaagtgt	ttaatattt	actattttacc	1140
tctgtcatt	tttatttgatt	ttctgtat	tttcaatggaa	atttataata	aaaatttttt	1200
ttgttaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaag	gcgcgcgc	1260
aaggcttacgt	acggctgtac	gcgcgtct	agcttttttca	tagtgtcacc	taatttcaat	1320
tcacttgccg	tcgttttata	acgtcgnc	tggggaaaacc	ctggcggtac	ccaaactttaat	1380
cgcccttgcag	cacatcccc	tttcgcgcag	tgggtataata	gcaagaggc	ccgcaccat	1440
cgcccttccc	aacagtgcg	cagctgaat	ggcgaatgg	acgcccctg	tagggcgca	1500
ttaaggcgcg	cggggtgtgt	ggttacncgc	agngtgcacc	cttacacttgc	cagcgcc	1557

<210> 43
<211> 1013
<212> DNA
<213> Homo sapiens

<400> 43	ggtagacatcc	cagtgcggcc	cgtgcaggca	aggcacaccc	gaagcgtgcc	atccctggggc	60
	aggaggaggc	gctgcggctg	cacgcctgt	gcccgtct	gcgcgggtg	gacctgttcc	120
	ggggctgtat	ctcccaagac	ctgcagcgt	cactggccaa	gtatgcggag	ctcgaccgtg	180
	aggatgactt	ctgtgaggct	ggcgaggccc	cggacatcca	gcctaagacc	caccagaagc	240
	cagaggccat	gttgcacccgt	ctgtcccaagg	ggaaaggggcc	tgacatcttc	catggctgg	300
	ggccctgtc	ttgttctca	gccaagaacc	ggtggcgct	gggtggggcc	gttccacctg	360
	cccgaggagg	ggggccgtt	ggccctcaagg	ctggcgttgc	cttcgttgc	ctcatcgct	420
	ccgtcatcc	aggggaggcc	ggccgcgcgg	ctggcgttgc	ggaggggcgc	tatattgtgt	480
	cagtgaatgg	gcagccatgc	agggtgttgc	gacacgcgg	gggtgtgtacg	gagctgaagg	540
	ctgggggaa	ggccggccgc	agccgtcagg	tgtgtcgt	gtgtccca	ttagactgc	600
	ccacgttggg	ggaccgcgcg	ccggctctgc	tggcccccag	ggggcttca	aggagccaga	660
	ggggatcgat	tttgcggatcc	cggtggccag	tcccccggcc	cttccaaact	720	
	ggggccggaa	ggccccacag	ggcaagactg	cgccctgt	ccccagtgaa	780	
	ggccatccgc	ggctcatcc	tgaaggcacc	agggtggcc	gtccctgtca	840	
	cgccctacggc	ctggccatcc	ttggcggca	tcgccttccc	acccaggaga	900	
	cctccgggca	atgcctgtcc	cgccctatgc	tggaggctgc	tcgggcacc	960	
	ttaagactg	gtcagacactg	aaaaaaaaaa	aaaaaaaaaa	aaaaaaa	1013	

<210> 44
<211> 986
<212> DNA
<213> Homo sapiens

<220>						
<221>	misc_feature					
<222>	(131)..(131)					
<223>	n equals a,t,g, or c					

<400> 44	ccgaggttgac	ccccacgtct	gagatgttca	agctgcccac	agacagcagt	gtcccgccaga	60
	caggcgcgc	gaatggtgac	agagacgtcc	cgcaaggcga	gaataacaaga	gcttgaagaa	120
	cgccgcggca	ntttctgtga	agccctgcaga	gcaaggggaa	cagcgtttga	tgccgaatat	180
	cagcgaaatc	ctcacagggt	ggacctcgat	attttaaccc	ttacgatagc	tctgactgc	240
	tctgtaaat	tcaaccctct	gatagaaagaa	cttgggtgcg	ataaggttat	caatagagaa	300
	tagttatgtt	gtgacactac	tcaaaagaaa	ctctctgtat	ccagtcatac	caatctgc	360
	actttgtttt	cagaacgtca	gatgtatcgt	cgatataagaca	gtgcacagg	ggagggggaaa	420
	aaaaggggga	ggggggaa	tatcttggaa	aagcatcaca	gaatgtaaaa	aaaatgtcga	480
	aagcatatca	actgttaacgt	tctttggat	tgtgttgcgt	ccacatttt	ccccctgtat	540
	tatggaaaat	gtcttcgc	atttgcgtt	tacaaatggaa	aggatgtttt	tataaaatgg	600
	agactgtatg	aacatcaata	ctagagccca	tggaggatggaa	aaaatatttc	aatagtgtt	660
	gaacagaaata	agatgttac	gtcgaggat	taggactgaa	aggctatgaa	aagaactgt	720
	aatttgcgg	atatgtgtc	tcttcgttc	atattcaata	gaatgttca	gtttaatgtt	780
	gatttttgtt	ttttctgtgg	atttcaatgt	acaaggcaaa	taatgtata	tattatgtga	840
	taatcatgtt	tttcaagaaac	gtcaaaatcc	tggactttt	tctttcaat	tttaatttt	900
	aaagtttttt	ttgttattaa	aaatctattc	acaagccaaa	aaatataataa	aatatacagc	960

ggaaactgcc	aaaagtgtgc	atttggctac	agtggactcg	actgttgcga	caaatttcag	60
ctgtatccct	ctttagtggg	caccatcgct	ggccatgtca	tttcgcagat	gataatgtca	120
ttgtatgtca	cagaagatc	aaataacaaa	aaacaaatcg	tttggaaaga	gaacttggatt	180
gacgaaactg	ttcaaaatct	aaaatctcg	tcgacaggct	tcaccaatgt	ttggacggaaa	240
ggggacgtct	ttctcaatgt	caggataatcg	ggccctccag	acggccatgt	gcaaaatccc	300
tatttcaacgg	acagccatgt	gccccccctt	gactatattaa	atataaagaa	ttgtggacccc	360
gcatggcccc	ccaaacaaatg	ttaaaggatct	ttttagatgt	atgttggaaa	actgtatggag	420
aatggagcac	cgttaaaatgt	ctggccctcg	gggtttttct	ttccatctgac	atctgcggcag	480
ctcttgcgtat	ggaaatgtgt	aatgttggca	acgaaatccag	cttcattgtct	aaataaagaat	540
ctatgcattt	aatgtatgtt	gtatgttata	ggctgttgc	gagagggtgt	tttcttcaat	600
cgtacatcaag	tactggacata	atgttggagg	ttgtttttct	aatttttttt	cttggtagggc	660
aaacaagaacg	atttccaaatc	tagggaaag	ctccccccag	ttgtgttgc	ctggcaaaac	720
atgttccttg	agttaaatgt	cttaatttcc	ctggggagaca	taacgcataat	cttggggatgt	780
cgggggatgt	gagaaagggt	acccacccat	tttcaagggt	cttgcacatca	ctcttcgtaca	840
agtcaatata	ggggactatgc	ttttatccct	ccaaatggaga	tttttttttt	acctttqaac	900
agccccggac	tttgcacatct	ggccatcccca	tttttttttt	gatttttttt	attttttttt	960
tttttcggaa	ggcgctgtctg	ggaaatccagg	tttttttttt	tttttttttt	tttttttttt	1020
ctaaaaatgt	ccactatggat	gttcacttgc	tttttttttt	tttttttttt	tttttttttt	1080
cgagacatgg	aaaaaaatcgta	ctctgttggaa	tttttttttt	tttttttttt	tttttttttt	1140
ggatcaatca	gagaggaggcc	acccgggtat	tttttttttt	tttttttttt	tttttttttt	1200
agaataggag	cactttctta	atcatggct	tttttttttt	tttttttttt	tttttttttt	1260
acaaaaaaatc	caggatgttaa	agcccttagt	tttttttttt	tttttttttt	tttttttttt	1320
aaagggttgcg	agggggatgt	ttgttgcgtgg	tttttttttt	tttttttttt	tttttttttt	1380
ttctggatgt	ttccatgtgg	ggccatcgct	tttttttttt	tttttttttt	tttttttttt	1440
ccaaacacaca	accacacaca	caacaacaca	tttttttttt	tttttttttt	tttttttttt	1500
aaacctttatc	aaatgttattt	atgttgcctt	tttttttttt	tttttttttt	tttttttttt	1560
ttttttttat	ttgttattttt	attttttttt	tttttttttt	tttttttttt	tttttttttt	1620
atgttccttg	ttatcatgtaa	aaaaaaaaaa	tttttttttt	tttttttttt	tttttttttt	1680

<210> 48
<211> 851
<212> DNA
<213> *Homo sapiens*

<210> 49
<211> 511
<212> DNA
<213> *Homo sapiens*

```
<220>
<221> misc_feature
<222> (1)..(1)
<223> n equals a,t,g, or c
```

```

<400> 49
naggcccat ttactttgcc cccctcggt ttctgtcaag caggtcaata tatctcttta 60
tccattataa tcaatatgtt agcattcatt cattcatttt tcatttcattt accattttt 120
gaaggcttaa attttgtctt agtcgttcga ctgtgttttt gtataaagag aacaataaga 180
atctgtatcat ttgtctgtttt gagaatcgta cgttacaaag ttcataatgtt catgtttct 240

```

gttagacaga	aattcatgga	ggagaactgg	aagagattca	cctggatagg	tagccctgggg	300
cataaaaggt	aggcttcagg	aggccctaaagg	acataggat	ttatttttggag	agatgtgttt	360
tgcttttta	gggtgcacgc	agggtggta	ttaaaggggg	ttttaaatctt	aatatatttt	420
aaagggtgg	ctaaacaaat	ttgtggatcg	aatacaaaga	gaacatttta	gataggcttt	480
aaatgtttt	ggcccaacca	caatqactca	t			511

<210> 50
<211> 817
<212> DNA
<213> *Homo sapiens*

```
<220>
<221> misc_feature
<222> (778)..(778)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc_feature
<222> (791)..(791)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc_feature
<222> (801)..(801)
<223> n equals a,t,g, or c
```

<210> 51
<211> 762
<212> DNA
<213> *Homo sapiens*

<210> 52
<211> 1417
<212> DNA
<213> *Homo sapiens*

tgtatgttat	ttgagaattt	tggtaaaaaa	tat tagctg	aggcagtt	agaacttata	540
aaccaataata	ttgtatattt	taaacattt	ttacatataa	gtaaactgcc	atctttgagc	600
ataactacat	ttaaaaataa	agctcataat	ttttaaatca	agtgtttaaac	agaattttat	660
atttttttat	ttttaaaatt	aaaataattt	tatatttcct	ctgtgcata	aggattctca	720
tctgtctta	taatggtag	agatttttat	tggtggat	gaagtgggc	ttgtatgtcat	780
ggttctatgt	tttcagttt	ccaagtcgt	ttactgcgt	gaaaatccatc	aaatgttca	840
gtgtgtttt	ctgtacccca	tcattttactg	gctatttttt	tatgtacacc	tttaggattt	900
ctgcctact	ctatccagg	gtccaaaatga	tatccatcat	tttacaatag	cccttcagt	960
ttctattttc	ttttccatt	aaatggccc	catgtccat	tgtcaggtt	gtaaatgtgt	1020
gtgtgtgtgt	gtgtgtgt	ttttcaagag	tgctagactt	ccaaatggag	1080	
agataaaata	atttaatca	ggcaacattt	tttccatgg	atttcacatg	tcattgttaat	1140
gaaaatgtta	atccctggat	acccctggaca	tacagtaatg	aatcttggat	attaatgtaa	1200
ttgttagtag	catcttgc	tgtgttttgc	tgatgtttat	tcacaatgtt	gcattaaacc	1260
aaatggcga	tactggaaat	gtttatatac	agttccattt	ggctactgtat	ggacaaaaaaa	1320
tagaaatggc	ttccatggat	gagttttttt	cctttttttt	aaaaaaagg	ttaaatattt	1380
tgaaaaaaa	aaatcgacc	acgcgtccgg	attacatgt	gttattggaa	atcccttgcg	1440
attcgtggc	ttatcatgt	atgtttttat	attgtgaca	tttaggtatg	acatgttaat	1500
taaagtaca	tttttttgc	atagacaacg	ttaacatgtt	agatgtttct	cttccaaaat	1560
cacccatcaa	atccatggat	ggaaattttgt	taataatggat	gtgtggaaac	cgtatattgt	1620
aaacccatccat	accccttccat	ttccctttagat	tttgcattt	tcagtttttg	tagtcccaat	1680
acagttgtcc	aattttgcac	aaatattttt	acccctgcgc	aaaaaaaggc	tgctgtggc	1740
ttatcatgtt	ttttttttat	aaatgtctca	tgtactttt	atcacatca	aaaaatattt	1800
attatgattt	cacccatgtc	tctgaaaattt	accgcgttta	gtaaattttag	ttggcttata	1860
aaaaacatgc	acccctttttt	atagttttt	gagaattttt	gttacattttt	tttagctgg	1920
ggcgcgtatag	aaatctttaa	aaatattttt	gatattttt	aaacattttt	acatataatgt	1980
aaacatgttgc	cttttgcatt	aaatccatgg	aaatccatgg	tttgcattttt	ttaaatcaag	2040
ttgttttgc	ttttttttat	tttttttttt	tttttttttt	tttttttttt	tatttcttct	2100
gttgcattatgg	gattttccat	tgtgttttata	atgttttag	tttttttttt	tttttttttt	2160
atgttgcatttgc	ttttttttat	tttttttttt	tttttttttt	tttttttttt	tttttttttt	2220
aatttcatca	atgttttgc	tttttttttt	tttttttttt	tttttttttt	tttttttttt	2280
ttgttgcaccc	ttttttttat	tttttttttt	tttttttttt	tttttttttt	tttttttttt	2340
ttttttttat	ttttttttat	tttttttttt	tttttttttt	tttttttttt	tttttttttt	2400
ttttttttat	ttttttttat	tttttttttt	tttttttttt	tttttttttt	tttttttttt	2460
ttttttttat	ttttttttat	tttttttttt	tttttttttt	tttttttttt	tttttttttt	2520
ttttttttat	ttttttttat	tttttttttt	tttttttttt	tttttttttt	tttttttttt	2580
ttttttttat	ttttttttat	tttttttttt	tttttttttt	tttttttttt	tttttttttt	2640
aaatgttgc	ttttttttat	tttttttttt	tttttttttt	tttttttttt	tttttttttt	2700
ctactgtat	ttttttttat	tttttttttt	tttttttttt	tttttttttt	tttttttttt	2760
aaaaaaatgtt	ttttttttat	tttttttttt	tttttttttt	tttttttttt	tttttttttt	2793

<210> 54
 <211> 393
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (214)..(214)
 <223> n equals a,t,g, or c

aatccggcac	gagagcttat	tcattgaagg	agtaagtggc	tgctcaactcc	tttctgtctga	60
aacttttcc	tgcccttttgc	ggcttagtgc	gaatggggagc	agggttcacag	tgaaagagct	120
gaatctcccc	acccacccac	actgcacgc	gctggggctg	ggccgacttgt	taatttgcga	180
gcaggaaacac	agcagcaac	tgccgggcacc	cctnacttgc	tacagtgtat	ggctgtgtgt	240
ctctcccaag	accttagagaa	aacccgcctt	tggtacgagc	gcatcaactt	cgccacatttgc	300
ttcatgtctt	tcatgaacgr	gtaaaactgt	gtttccgtgg	rttttcaaaa	aaaaaaaat	360
aaaaaaaaaaa	aaaaaaaaaa	ctcgagggttgc	ggc			393

<210> 55
 <211> 261
 <212> PRT
 <213> Homo sapiens

<400> 55
 Met Ser Gly Glu Ile Ala Met Cys Glu Pro Glu Phe Gly Asn Asp Lys

1	5	10	15
Ala Arg Glu Pro Ser Val Gly Gly Arg		Trp Arg Val Ser Trp Tyr	Glu
20	25	30	
Arg Phe Val Gln Pro Cys Leu Val	Glu	Leu Leu Gly Ser Ala	Leu Phe
35	40	45	
Ile Phe Ile Gly Cys Leu Ser Val	Ile	Glu Asn Gly Thr Asp Thr	Gly
50	55	60	
Leu Leu Gln Pro Ala Leu Ala His	Gly	Leu Ala Leu Gly Leu Val	Ile
65	70	75	80
Ala Thr Leu Gly Asn Ile Ser Gly	Gly	His Phe Asn Pro Ala Val	Ser
85	90	95	
Leu Ala Ala Met Leu Ile Gly Gly	Leu	Asn Leu Val Met Leu Leu	Pro
100	105	110	
Tyr Trp Val Ser Gln Leu Leu Gly	Gly	Met Leu Gly Ala Ala	Leu Ala
115	120	125	
Lys Ala Val Ser Pro Glu Glu Arg	Phe	Trp Asn Ala Ser Gly	Ala Ala
130	135	140	
Phe Val Thr Val Gln Glu Gln Gly	Gln	Val Ala Gly Ala Leu	Val Ala
145	150	155	160
Glu Ile Ile Leu Thr Thr Leu Leu	Ala	Leu Ala Val Cys Met	Gly Ala
165	170	175	
Ile Asn Glu Lys Thr Lys Gly Pro	Leu Ala Pro Phe Ser	Ile Gly Phe	
180	185	190	
Ala Val Thr Val Asp Ile Leu Ala	Gly	Pro Val Ser Gly Gly	Cys
195	200	205	
Met Asn Pro Ala Arg Ala Phe Gly	Pro Ala Val Val	Ala Asn His Trp	
210	215	220	
Asn Phe His Trp Ile Tyr Trp Leu	Gly Pro Leu	Leu Ala Gly Leu	Leu
225	230	235	240
Val Gly Leu Leu Ile Arg Cys Phe	Ile Gly Asp Gly Lys	Thr Arg Leu	
245	250	255	
Ile Leu Lys Ala Gln			
260			
<210> 56			
<211> 310			
<212> PRT			
<213> Homo sapiens			
<400> 56			
Met Met Thr Lys Tyr Ser Asn Leu Ser Leu Glu Ser His Asn Phe Ser			
1 5 10 15			
Leu Thr Ala Ser Pro Leu Thr Ser Leu Pro Ile Pro Glu Val Met Met			
20 25 30			
Thr Lys Tyr Ser Asn Leu Phe Leu Glu Ser His Asn Ile Ser Leu Thr			
35 40 45			

Glu His Ser Ser Val Pro Val Glu Lys Asn Ile Thr Leu Glu Arg Pro
 50 55 60 80
 Ser Ala Val Glu Leu Thr Cys Gln Phe Thr Thr Ser Gly Asp Val Asn
 65 70 75 80
 Ser Val Asn Val Thr Trp Lys Lys Gly Asp Glu Gln Leu Lys Asn Tyr
 85 90 95
 His Val Ser Ala Thr Glu Gly Ile Leu Tyr Thr Gln Tyr Lys Phe Ser
 100 105 110
 Ile Ile Asn Ser Glu Gln Leu Gly Ser Tyr Ser Cys Phe Phe Glu Glu
 115 120 125
 Glu Lys Glu Arg Arg Gly Thr Phe Asn Phe Gly Val Pro Glu Val Gln
 130 135 140
 Arg Lys Asn Lys Pro Leu Ile Thr Tyr Val Gly Asp Ser Val Val Leu
 145 150 155 160
 Val Cys Lys Cys Arg His Cys Ala Pro Leu Asn Trp Thr Trp Tyr Ser
 165 170 175
 Gly Asn Arg Ser Val Gln Val Pro Leu Asp Val His Met Asn Glu Lys
 180 185 190
 Tyr Ala Ile Asn Gly Thr Asn Ala Asn Glu Thr Arg Leu Lys Ile Met
 195 200 205
 Gln Leu Ser Glu Asp Asp Lys Gly Ser Tyr Trp Cys His Ala Met Phe
 210 215 220
 Gln Leu Gly Glu Ser Gln Glu Ser Val Glu Leu Val Val Ile Ser Tyr
 225 230 235 240
 Leu Val Pro Leu Lys Pro Phe Leu Gly Ile Val Val Glu Val Ile Leu
 245 250 255
 Leu Val Ala Ile Ile Leu Phe Cys Glu Met His Thr Gln Lys Lys Lys
 260 265 270
 Met His Met Asp Asp Gly Lys Glu Phe Glu Gln Val Glu Gln Leu Lys
 275 280 285
 Ser Asp Asp Ser Asn Gly Ile Glu Asn Asn Ala Pro Arg His Arg Lys
 290 295 300
 Asn Glu Ala Met Ser Gln
 305 310

<210> 57
 <211> 117
 <212> PRT
 <213> Homo sapiens

<400> 57
 Met Gly Ser Lys Gly Gly Phe Ile Leu Leu Ile Leu Ala Val Leu
 1 5 10 15
 Cys Arg Ser Gly His Ser Leu Thr Cys Tyr Ala Cys Ile Asp Arg Glu
 20 25 30

Thr Cys Asn Lys Thr Thr Val Cys Ser Val Asn His Asp Ala Cys Leu
 35 40 45

Leu Val Lys Ala Asp Pro Lys Leu Phe Tyr Arg Gln Cys Trp Lys Phe
 50 55 60

Asp Asp Cys Ser Tyr Leu Ser Ile Ser Lys Ala Leu Gly Leu Lys Lys
 65 70 75 80

Leu Gln Tyr Ser Cys Cys Gln Lys Asp Leu Cys Asn Gly Ser Ala Arg
 85 90 95

Val Ser Gly Met Thr Ala Leu Met Leu Leu Pro Leu Leu Ala Ala Ala
 100 105 110

Leu Thr Leu Cys Leu
 115

<210> 58
 <211> 135
 <212> PRT
 <213> Homo sapiens

<400> 58
 Met His Ile Trp Val Cys Thr Phe Leu Phe Ile Ile His Phe Ser Pro
 1 5 10 15

Phe Ser Ile Lys Glu His Ala Leu Gly Glu Leu Leu Ile Ala His Gln
 20 25 30

Ser Gly Arg Gln His Ser Ile Leu Leu Cys Leu Leu Ser Pro Pro Val
 35 40 45

Glu Val Phe Leu Leu Lys Gln Arg Arg Asn Arg Gln Ile Arg Leu Ala
 50 55 60

Leu Leu Glu Met Trp Ser Arg Phe Leu Tyr Ser Gln Ala Pro Lys Lys
 65 70 75 80

Ala Tyr Ile Gly Trp Ala Arg Ser Thr Pro Pro Glu Ser His Lys Ser
 85 90 95

Ala Lys Ser Cys Phe Pro Cys Lys Gly Val Val Gln Trp Gly Thr Pro
 100 105 110

Asp Val Gly Gly Lys Gln Glu Asp Phe Arg Val Glu Leu His Ser Asn
 115 120 125

Leu Ser Ala Ala Ser Thr Met
 130 135

<210> 59
 <211> 257
 <212> PRT
 <213> Homo sapiens

<400> 59
 His Pro Ser Ala Pro Arg Ala Gly Lys Ala His Leu Lys Arg Ala Ile
 1 5 10 15

Leu Gly Gln Glu Glu Ala Leu Arg Leu His Ala Leu Cys Arg Val Leu
 20 25 30

Arg Glu Val Asp Leu Leu Arg Ala Val Ile Ser Gln Thr Leu Gln Arg
 35 40 45
 Ser Leu Ala Lys Tyr Ala Glu Leu Asp Arg Glu Asp Asp Phe Cys Glu
 50 55 60
 Ala Ala Glu Ala Pro Asp Ile Gln Pro Lys Thr His Gln Lys Pro Glu
 65 70 75 80
 Ala Arg Met Pro Arg Leu Ser Gln Gly Lys Gly Pro Asp Ile Phe His
 85 90 95
 Arg Leu Gly Pro Leu Ser Val Phe Ser Ala Lys Asn Arg Trp Arg Leu
 100 105 110
 Val Gly Pro Val His Leu Thr Arg Gly Glu Gly Gly Phe Gly Leu Thr
 115 120 125
 Leu Arg Gly Asp Ser Pro Val Leu Ile Ala Ala Val Ile Pro Gly Ser
 130 135 140
 Gln Ala Ala Ala Ala Gly Leu Lys Glu Gly Asp Tyr Ile Val Ser Val
 145 150 155 160
 Asn Gly Gln Pro Cys Arg Trp Trp Arg His Ala Glu Val Val Thr Glu
 165 170 175
 Leu Lys Ala Ala Gly Glu Ala Gly Ala Ser Leu Gln Val Val Ser Leu
 180 185 190
 Leu Pro Ser Ser Arg Leu Pro Ser Leu Gly Asp Arg Arg Pro Val Leu
 195 200 205
 Leu Gly Pro Arg Gly Leu Leu Arg Ser Gln Arg Glu His Gly Cys Lys
 210 215 220
 Thr Pro Ala Ser Thr Trp Ala Ser Pro Arg Ala Leu Leu Asn Trp Ser
 225 230 235 240
 Arg Lys Ala Gln Gln Gly Lys Thr Gly Gly Cys Pro Ser Pro Val Pro
 245 250 255

Gln

<210> 60
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 60
 Met Tyr Ser Phe Gln Lys Glu Ala Thr Phe Leu Leu Pro Ser Leu Phe
 1 5 10 15
 Leu Val Ser Ser Pro Arg Leu Ala Ile Ala Ile Gly Ile Val Met Ala
 20 25 30
 Ser Ile Leu Ser Leu Leu His Pro Tyr Leu Leu Leu Cys Asp Phe Ala
 35 40 45
 Ala Pro Leu Ile Lys Glu Ala Glu Pro Pro Leu Pro Pro Ile Gly Ala
 50 55 60

Gly Phe Glu Ser Asn Arg Met Lys
65 70

<210> 61
<211> 84
<212> PRT
<213> Homo sapiens

<400> 61
Val Ser Arg Arg Gln Ala Arg Arg Met Val Thr Glu Thr Ser Arg Arg
1 5 10 15
Arg Arg Ile Gln Glu Leu Glu Arg Arg Arg Arg Phe Val Glu Ala
20 25 30
Cys Arg Ala Arg Glu Ala Ala Phe Asp Ala Glu Tyr Gln Arg Asn Pro
35 40 45
His Arg Val Asp Leu Asp Ile Leu Thr Phe Thr Ile Ala Leu Thr Ala
50 55 60
Ser Glu Val Ile Asn Pro Leu Ile Glu Glu Leu Gly Cys Asp Lys Phe
65 70 75 80
Ile Asn Arg Glu

<210> 62
<211> 216
<212> PRT
<213> Homo sapiens

<400> 62
Met Asp Phe Glu Phe Ala Ala Trp Gln Met Leu Tyr Leu Phe Thr Ser
1 5 10 15
Pro Gln Arg Val Tyr Arg Asn Phe His Tyr Arg Lys Gln Thr Lys Asp
20 25 30
Gln Trp Ala Arg Asp Asp Pro Ala Phe Leu Val Leu Leu Ser Ile Trp
35 40 45
Leu Cys Val Ser Thr Ile Gly Phe Gly Phe Val Leu Asp Met Gly Phe
50 55 60
Phe Glu Thr Ile Lys Leu Leu Leu Trp Val Val Phe Ile Asp Cys Val
65 70 75 80
Gly Val Gly Leu Leu Ile Ser Thr Leu Met Trp Phe Ile Ser Asn Lys
85 90 95
Tyr Leu Val Lys Arg Gln Ser Arg Asp Tyr Asp Val Glu Trp Gly Tyr
100 105 110
Ala Phe Asp Val His Leu Asn Ala Phe Tyr Pro Leu Leu Val Ile Leu
115 120 125
His Phe Ile Gln Leu Phe Phe Ile Asn His Val Ile Leu Thr Asp Thr
130 135 140
Phe Ile Gly Tyr Phe Val Gly Asn Thr Leu Trp Leu Val Ala Val Gly
145 150 155 160

Tyr Tyr Ile Tyr Val Thr Phe Leu Gly Tyr Ser Ala Leu Pro Phe Leu
 165 170 175
 Lys Asn Thr Val Ile Leu Leu Tyr Pro Phe Ala Pro Leu Ile Leu Leu
 180 185 190
 Tyr Gly Leu Ser Leu Ala Leu Gly Trp Asn Phe Thr His Thr Leu Cys
 195 200 205
 Ser Phe Tyr Lys Tyr Arg Val Lys
 210 215

<210> 63
 <211> 142
 <212> PRT
 <213> Homo sapiens

<400> 63
 Met Met Val Ser Cys Ala Cys Glu His Leu Leu Glu Leu Arg Gly Leu
 1 5 10 15
 Thr Thr Ser Thr Arg Trp Pro Trp Leu Val Pro His Thr Gly Leu Val
 20 25 30
 Leu Lys Ile Arg Ser Pro Arg Gln Gly Glu Pro Gly Ala Pro Pro Leu
 35 40 45
 Ser Val Cys Leu Ser Pro Val Val Ser Leu Cys Cys Cys Leu Cys Leu
 50 55 60
 Cys Phe Cys Leu Ser Val Ala Met Ser Leu Val Ile Phe Leu Cys Pro
 65 70 75 80
 Ala Ala Ile Ser Ala Leu Val Thr Ser Thr Leu Leu Ser Pro Arg Asp
 85 90 95
 Ala Thr His Trp Gly Ser Val Gly Glu Ile Ala Leu Gly Pro His Ala
 100 105 110
 Ser Ile Pro Gly Trp Leu Cys Leu Pro Val Ser Leu His Val Ser Pro
 115 120 125
 Cys Val Phe Leu Ser Val Ser Leu Thr Gly Arg Asp Ala Glu
 130 135 140

<210> 64
 <211> 367
 <212> PRT
 <213> Homo sapiens

<400> 64
 Met Ser Ser Asn Gly Ile Pro Glu Cys Tyr Ala Glu Glu Asp Glu Phe
 1 5 10 15
 Ser Gly Leu Glu Thr Asp Thr Ala Val Pro Thr Glu Glu Ala Tyr Val
 20 25 30
 Ile Tyr Asp Glu Asp Tyr Glu Phe Glu Thr Ser Arg Pro Pro Thr Thr
 35 40 45
 Thr Glu Pro Ser Thr Thr Ala Thr Thr Pro Arg Val Ile Pro Glu Glu

50	55	60	
Gly Ala Ile Ser Ser Phe Pro Glu Glu Glu	Phe Asp Leu Ala Gly Arg		
65 65 70	75	80	
Lys Arg Phe Val Ala Pro Tyr Val Thr Tyr	Leu Asn Lys Asp Pro Ser		
85	90	95	
Ala Pro Cys Ser Leu Thr Asp Ala	Leu Asp His Phe Gln Val Asp Ser		
100	105	110	
Leu Asp Glu Ile Ile Pro Asn Asp	Leu Lys Lys Ser Asp Leu Pro Pro		
115	120	125	
Gln His Ala Pro Arg Asn Ile Thr Val Val	Ala Val Glu Gly Cys His		
130	135	140	
Ser Phe Val Ile Val Asp Trp Asp Lys Ala Thr	Pro Gly Asp Val Val		
145	150	155	160
Thr Gly Tyr Leu Val Tyr Ser Ala Ser Tyr	Glu Asp Phe Ile Arg Asn		
165	170	175	
Lys Trp Ser Thr Gln Ala Ser Ser Val	Thr His Leu Pro Ile Glu Asn		
180	185	190	
Leu Lys Pro Asn Thr Arg Tyr Tyr	Phe Lys Val Gln Ala Gln Asn Pro		
195	200	205	
His Gly Tyr Gly Pro Ile Ser Pro Ser Val	Ser Phe Val Thr Glu Ser		
210	215	220	
Asp Asn Pro Leu Leu Val Val Arg Pro Pro	Gly Gly Glu Pro Ile Trp		
225	230	235	240
Ile Pro Phe Ala Phe Lys His Asp Pro Ser	Tyr Thr Asp Cys His Gly		
245	250	255	
Arg Gln Tyr Val Lys Arg Thr Trp Tyr Arg	Lys Phe Val Gly Val Val		
260	265	270	
Leu Cys Asn Ser Leu Arg Tyr Lys Ile Tyr	Leu Ser Asp Asn Leu Lys		
275	280	285	
Asp Thr Phe Tyr Ser Ile Gly Asp Ser Trp	Gly Arg Gly Glu Asp His		
290	295	300	
Cys Gln Phe Val Asp Ser His Leu Asp Gly	Arg Thr Gly Pro Gln Ser		
305	310	315	320
Tyr Val Glu Ala Leu Pro Thr Ile Gln	Gly Tyr Tyr Arg Gln Tyr Arg		
325	330	335	
Gln Glu Pro Val Arg Phe Gly Asn Ile	Gly Phe Gly Thr Pro Tyr Tyr		
340	345	350	
Tyr Val Gly Trp Tyr Glu Cys Gly Val Ser	Ile Pro Gly Lys Trp		
355	360	365	

<210> 65

<211> 55

<212> PRT

<213> Homo sapiens

<400> 65
 Met Met Tyr Cys Ile Leu Lys Tyr Ser Asn Cys Ala Phe Leu Tyr His
 1 5 10 15
 Leu Gln Tyr Glu Lys Cys Gln Tyr Leu Val Pro Phe Ser Gly Thr Ile
 20 25 30
 Arg Phe Leu Leu Thr Leu Phe Ser Pro Leu Thr His Val Ile Ser His
 35 40 45
 Ser Asn Gln Glu Ser Arg Glu
 50 55

<210> 66
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 66
 Met Thr Leu Asn Val Val Asp Ala Ile Ser Ala Cys Gln Arg Gly Gly
 1 5 10 15
 Phe Leu Gln Ser Val Gln Ser Thr Glu Thr Met Val Arg Val Val Phe
 20 25 30
 Leu Ile Leu Phe Leu Val Gly Gln Gln Glu Pro Phe Pro Ile
 35 40 45

<210> 67
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 67
 Met Ser Thr Ile Ile Met Val Leu Tyr Ser Arg Ser Lys Cys Ile His
 1 5 10 15
 Phe Ser Tyr Leu Thr Glu Asn Leu Tyr Leu Leu Thr Asn Ile Ser Leu
 20 25 30
 Val Pro Pro Ser Pro Pro Leu Val Thr Thr Ile Ile Phe Phe Ser Phe
 35 40 45

Phe

<210> 68
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 68
 Met Leu Asn Phe Leu Trp Gly His Ser Leu Ile Val Pro Ala Ala Ala
 1 5 10 15
 Thr Gly Ala Ser Leu Glu Ala Ala Cys Ala Lys Thr Thr Gln Leu Ser
 20 25 30
 Leu Gly Ser His Pro Arg Ala Phe Phe Ala Ser Arg Ser Gly Asp Leu
 35 40 45

Leu Gln
50

<210> 69
<211> 49
<212> PRT
<213> Homo sapiens

<400> 69
Met Leu Leu His Phe Cys Tyr Ser Ser Tyr Gln Ser Thr Pro Ile Pro
1 5 10 15
Gln Cys Cys Phe Ile Leu Phe Val Cys Leu Phe Val Phe Glu Val Glu
20 25 30
Ser Val Thr Gln Ala Gly Val His Thr Cys Asn Pro Ser Tyr Ser Gly
35 40 45

Gly

<210> 70
<211> 94
<212> PRT
<213> Homo sapiens

<400> 70
Gly Pro Leu Pro Phe Leu Phe Ser Leu Tyr Pro Pro Pro Lys Arg Ala
1 5 10 15
Gln Lys Lys Val Phe Ile Asn Ile Phe Gly Val Gly Glu Ile Gln Thr
20 25 30
Ser Gln Arg Ile Arg Tyr Pro Gln Leu Lys Cys Thr Gly Thr Phe Val
35 40 45
Ser Glu Phe His Phe Gln Ser Leu Pro Tyr Ile Gly Asn Cys Arg Ser
50 55 60
Glu Leu Val Glu Val Ser Ser Cys Glu Thr Leu Glu Arg Lys Gln Lys
65 70 75 80
Pro His Ala Thr Arg Ser Gly Leu Leu Cys Arg Cys Leu Phe
85 90

<210> 71
<211> 52
<212> PRT
<213> Homo sapiens

<400> 71
Met Thr Met Leu Gln Val Tyr Val Leu Ile Pro Leu Phe Val Ile Ile
1 5 10 15
Leu Glu Cys Thr Pro Thr Asn Tyr Lys Lys Glu Lys Val Asn Cys Lys
20 25 30
Lys Ala Ser Gly Arg Ser Phe Arg Arg His Ser Arg Arg Arg His Cys
35 40 45

Tyr His Arg Arg
50

<210> 72
<211> 41
<212> PRT
<213> Homo sapiens

<400> 72
Met Arg Gly Lys Phe Pro His Asp Leu Leu Cys Phe Leu Ile Lys Leu
1 5 10 15

Leu Cys Pro Thr Ile Ala Gly Ser Ala Tyr Gly Cys Cys Asn Val Gly
20 25 30

Ser Ala Val Ser Cys Ser Tyr His Phe
35 40

<210> 73
<211> 63
<212> PRT
<213> Homo sapiens

<400> 73
Met Arg Gly Leu Ser Gln Phe Tyr Gly Phe Lys Tyr His Leu Asn Ala
1 5 10 15

Trp Asp Thr Gln Met Tyr Ile Pro Asn Ser Asp Cys Pro Pro Asn Ser
20 25 30

Lys Leu Ile Tyr Pro Asn Tyr Leu Phe Gln Ser Pro Leu Gly Tyr Leu
35 40 45

Ile Ile Met Ser His Leu Asp His Ala Asn Ser Ser Gln Ser Arg
50 55 60

<210> 74
<211> 30
<212> PRT
<213> Homo sapiens

<400> 74
Met Arg Cys Thr Pro Gly Phe Gly Leu Gly Thr Ser Gly Phe Ser Gln
1 5 10 15

Gly Arg Leu Glu Val Glu Thr Ser Thr Cys Val Thr Val Val
20 25 30

<210> 75
<211> 46
<212> PRT
<213> Homo sapiens

<400> 75
Met Thr Tyr Ser Phe Trp Gln Lys Lys Phe Pro Phe Pro Arg Gln Ile
1 5 10 15

Lys Leu Val Gln Gly Arg Ile Leu Ser Thr Glu Ile Leu Gly Asn Pro
 20 25 30

Ala Arg Glu Arg Glu Ser Leu Leu Leu Cys Phe Leu Leu Pro
 35 40 45

<210> 76

<211> 71

<212> PRT

<213> Homo sapiens

<400> 76

Met Val Gln Cys Pro Arg Thr Ser Lys Asp Gly Asp Leu Leu Ser Pro
 1 5 10 15

Ser Leu Arg Asp Glu Arg Arg His Trp Leu Cys Arg Arg Pro Gly Glu
 20 25 30

Arg Trp Asn Trp Arg Trp Gly Cys Trp Gln Glu Leu Trp Pro Gln Lys
 35 40 45

Glu Gly Ser Ser His Cys Leu Thr Cys Asp Gln Thr Arg Arg Glu Gln
 50 55 60

Gly Trp Trp Gly Ser Asp Thr
 65 70

<210> 77

<211> 51

<212> PRT

<213> Homo sapiens

<400> 77

Met Phe Arg Asp Leu Ser Glu Lys Leu Ala Trp Phe Glu Gly Thr Gln
 1 5 10 15

Tyr His Phe Asn Leu Leu Lys Ile Ser Val Phe Leu Leu Phe Phe Cys
 20 25 30

Cys His Cys Gln Ser Ala Ile Phe Phe Thr Ile Leu Leu Lys Tyr Tyr
 35 40 45

Cys Leu Leu
 50

<210> 78

<211> 107

<212> PRT

<213> Homo sapiens

<400> 78

Met Pro Leu Gly Cys Arg Glu Glu Ala Gly Gly Val Met Gly Met Gly
 1 5 10 15

Ser Gly Arg Gly Arg Glu Gly Pro Ser Thr Lys Ala Trp Glu Met Arg
 20 25 30

Gly Gly Gly Gly Arg Ala Gly Glu Ala Lys Ser Gln Pro Trp Arg Glu
 35 40 45

His Pro Gly Ala Ser Val Ser Gly Tyr Thr Gln His Phe Ala Thr Cys
 50 55 60

Gly Pro Ala Gly Ala Glu Asp Gly Gly Glu Ala Ser Ser Pro Cys
 65 70 75 80

Val Tyr Cys Arg Gln Lys Gly Leu Val Phe Trp Phe Trp Gly Phe Cys
 85 90 95

Phe Val Cys Val Leu Phe Gly Leu Phe Val Phe
 100 105

<210> 79
 <211> 105
 <212> PRT
 <213> Homo sapiens

<400> 79
 Met Glu Ala Gly Glu Pro Gly Gly Leu Gly Gln Pro Trp Asp Gly Ser
 1 5 10 15

Trp Ile Glu Glu Ser Arg Gly Val Met Arg Val Pro Ser Gly Leu Gly
 20 25 30

Ser Leu Leu Leu Val Ser Asp Pro Pro Phe Ser Ser Gln Ala Leu
 35 40 45

Gly Ala Pro Gly Ser Glu Asp Ser Trp Glu Ser Ser Leu Arg Gln Val
 50 55 60

Gln Gly Gln Ser Ser Asp Pro Gly Pro Gly Leu Leu Trp Val Pro Met
 65 70 75 80

Asn Ser Ala Ser Gly Ser Glu Gln Phe Pro Ala Pro Leu Pro Glu Pro
 85 90 95

Ser Val Leu Trp Asn Pro Trp Ala Gly
 100 105

<210> 80
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 80
 Met Cys Val Leu Met Ser Tyr Phe Gln Ser Cys Ala Leu Asn Gln Ser
 1 5 10 15

Trp His Thr Gly Ser Val Tyr Ile Lys Phe His Leu Ala Thr Asp Gly
 20 25 30

Gln Lys Ile Glu Met Pro Ser Tyr Gly Glu Tyr Phe Ser Phe Lys Lys
 35 40 45

Leu Lys Arg Leu Ile Ile Leu Lys Lys Lys Asn Arg Pro Thr Arg Pro
 50 55 60

Asp Tyr Met
 65

<210> 81
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 81
 Met Leu Trp Arg Cys Phe Val Ile Phe Lys Ile Cys Pro Tyr Cys Leu
 1 5 10 15
 Phe Lys Thr Pro Lys Ile Met Asn Ser Glu Thr His Pro Ala Gln Arg
 20 25 30
 Val Leu Asp Lys Gly Leu
 35

<210> 82
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 82
 Gly Thr Arg Pro Pro Ala Pro Val Thr Leu Thr His Thr Gly Leu Gly
 1 5 10 15
 Ala Gly Ile Phe Phe Ala Ile Ile Leu Val Thr Gly Ala Val Ala Leu
 20 25 30
 Ala Ala Tyr Ser Tyr Phe Arg Ile Asn Arg Arg Thr Ile Gly Phe Gln
 35 40 45
 His Phe Glu Ser Glu Glu Asp Ile Asn Val Ala Ala Leu Gly Lys Gln
 50 55 60
 Gln Pro Glu Asn Ile Ser Asn Pro Leu Tyr Glu Ser Thr Thr Ser Ala
 65 70 75 80
 Pro Pro Glu Pro Ser Tyr Asp Pro Phe Thr Asp Ser Glu Glu Arg Gln
 85 90 95
 Leu Glu Gly Asn Asp Pro Leu Arg Thr Leu
 100 105

<210> 83
 <211> 124
 <212> PRT
 <213> Homo sapiens

<400> 83
 His Glu Ser Leu Phe Ile Glu Gly Val Ser Gly Cys Ser Leu Leu Ser
 1 5 10 15
 Ala Glu Thr Leu Ser Cys Pro Cys Ser Leu Val Trp Asn Gly Ser Arg
 20 25 30
 Val Thr Val Lys Glu Leu Asn Leu Pro Thr His Pro His Cys Ser Arg
 35 40 45
 Leu Arg Leu Ala Asp Leu Ile Ala Glu Gln Glu His Ser Ser Lys
 50 55 60
 Leu Arg His Pro Tyr Leu Leu Gln Leu Met Ala Val Cys Leu Ser Gln
 65 70 75 80

Asp Leu Glu Lys Thr Arg Leu Val Tyr Glu Arg Ile Thr Ile Gly Thr
 85 90 95

Leu Phe Ser Val Leu His Glu Arg Val Asn Cys Cys Phe Arg Gly Phe
 100 105 110

Ser Lys
 115 120

<210> 84
 <211> 261
 <212> PRT
 <213> Homo sapiens

<400> 84
 Met Ser Gly Glu Ile Ala Met Cys Glu Pro Glu Phe Gly Asn Asp Lys
 1 5 10 15

Ala Arg Glu Pro Ser Val Gly Gly Arg Trp Arg Val Ser Trp Tyr Glu
 20 25 30

Arg Phe Val Gln Pro Cys Leu Val Glu Leu Leu Gly Ser Ala Leu Phe
 35 40 45

Ile Phe Ile Gly Cys Leu Ser Val Ile Glu Asn Gly Thr Asp Thr Gly
 50 55 60

Leu Leu Gln Pro Ala Leu Ala His Gly Leu Ala Leu Gly Leu Val Ile
 65 70 75 80

Ala Thr Leu Gly Asn Ile Ser Gly Gly His Phe Asn Pro Ala Val Ser
 85 90 95

Leu Ala Ala Met Leu Ile Gly Gly Leu Asn Leu Val Met Leu Leu Pro
 100 105 110

Tyr Trp Val Ser Gln Leu Leu Gly Met Leu Gly Ala Ala Leu Ala
 115 120 125

Lys Ala Val Ser Pro Glu Glu Arg Phe Trp Asn Ala Ser Gly Ala Ala
 130 135 140

Phe Val Thr Val Gln Glu Gln Gly Gln Val Ala Gly Ala Leu Val Ala
 145 150 155 160

Glu Ile Ile Leu Thr Thr Leu Leu Ala Leu Ala Val Cys Met Gly Ala
 165 170 175

Ile Asn Glu Lys Thr Lys Gly Pro Leu Ala Pro Phe Ser Ile Gly Phe
 180 185 190

Ala Val Thr Val Asp Ile Leu Ala Gly Gly Pro Val Ser Gly Gly Cys
 195 200 205

Met Asn Pro Ala Arg Ala Phe Gly Pro Ala Val Val Ala Asn His Trp
 210 215 220

Asn Phe His Trp Ile Tyr Trp Leu Gly Pro Leu Leu Ala Gly Leu Leu
 225 230 235 240

Val Gly Leu Leu Ile Arg Cys Phe Ile Gly Asp Gly Lys Thr Arg Leu
 245 250 255

1le Leu Lys Ala Gln
260

<210> 85
<211> 310
<212> PRT
<213> Homo sapiens

<400> 85
Met Met Thr Lys Tyr Ser Asn Leu Ser Leu Glu Ser His Asn Phe Ser
1 5 10 15
Leu Thr Ala Ser Pro Leu Thr Ser Leu Pro Ile Pro Glu Val Met Met
20 25 30
Thr Lys Tyr Ser Asn Leu Phe Leu Glu Ser His Asn Ile Ser Leu Thr
35 40 45
Glu His Ser Ser Val Pro Val Glu Lys Asn Ile Thr Leu Glu Arg Pro
50 55 60
Ser Ala Val Glu Leu Thr Cys Gln Phe Thr Thr Ser Gly Asp Val Asn
65 70 75 80
Ser Val Asn Val Thr Trp Lys Lys Gly Asp Glu Gln Leu Lys Asn Tyr
85 90 95
His Val Ser Ala Thr Glu Gly Ile Leu Tyr Thr Gln Tyr Lys Phe Ser
100 105 110
Ile Ile Asn Ser Glu Gln Leu Gly Ser Tyr Ser Cys Phe Phe Glu Glu
115 120 125
Glu Lys Glu Arg Arg Gly Thr Phe Asn Phe Gly Val Pro Glu Val Gln
130 135 140
Arg Lys Asn Lys Pro Leu Ile Thr Tyr Val Gly Asp Ser Val Val Leu
145 150 155 160
Val Cys Lys Cys Arg His Cys Ala Pro Leu Asn Trp Thr Trp Tyr Ser
165 170 175
Gly Asn Arg Ser Val Gln Val Pro Leu Asp Val His Met Asn Glu Lys
180 185 190
Tyr Ala Ile Asn Gly Thr Asn Ala Asn Glu Thr Arg Leu Lys Ile Met
195 200 205
Gln Leu Ser Glu Asp Asp Lys Gly Ser Tyr Trp Cys His Ala Met Phe
210 215 220
Gln Leu Gly Glu Ser Gln Glu Ser Val Glu Leu Val Val Ile Ser Tyr
225 230 235 240
Leu Val Pro Leu Lys Pro Phe Leu Gly Ile Val Val Glu Val Ile Leu
245 250 255 260
Leu Val Ala Ile Ile Leu Phe Cys Glu Met His Thr Gln Lys Lys Lys
260 265 270 275
Met His Met Asp Asp Gly Lys Glu Phe Glu Gln Val Glu Gln Leu Lys
275 280 285
Ser Asp Asp Ser Asn Gly Ile Glu Asn Asn Ala Pro Arg His Arg Lys

290

295

300

Asn Glu Ala Met Ser Gln
 305 310

<210> 86
 <211> 135
 <212> PRT
 <213> Homo sapiens

<400> 86
 Met His Ile Trp Val Cys Thr Phe Leu Phe Ile Ile His Phe Ser Pro
 1 5 10 15

Phe Ser Ile Lys Glu His Ala Leu Gly Glu Leu Leu Ile Ala His Gln
 20 25 30

Ser Gly Arg Gln His Ser Ile Leu Leu Cys Leu Leu Ser Pro Pro Val
 35 40 45

Glu Val Phe Leu Leu Lys Gln Arg Arg Asn Arg Gln Ile Arg Leu Ala
 50 55 60

Leu Leu Glu Met Trp Ser Arg Phe Leu Tyr Ser Gln Ala Pro Lys Lys
 65 70 75 80

Ala Tyr Ile Gly Trp Ala Arg Ser Thr Pro Pro Glu Ser His Lys Ser
 85 90 95

Ala Lys Ser Cys Phe Pro Cys Lys Gly Val Val Gln Trp Gly Thr Pro
 100 105 110

Asp Val Gly Gly Lys Gln Glu Asp Phe Arg Val Glu Leu His Ser Asn
 115 120 125

Leu Ser Ala Ala Ser Thr Met
 130 135

<210> 87
 <211> 257
 <212> PRT
 <213> Homo sapiens

<400> 87
 His Pro Ser Ala Pro Arg Ala Gly Lys Ala His Leu Lys Arg Ala Ile
 1 5 10 15

Leu Gly Gln Glu Glu Ala Leu Arg Leu His Ala Leu Cys Arg Val Leu
 20 25 30

Arg Glu Val Asp Leu Leu Arg Ala Val Ile Ser Gln Thr Leu Gln Arg
 35 40 45

Ser Leu Ala Lys Tyr Ala Glu Leu Asp Arg Glu Asp Asp Phe Cys Glu
 50 55 60

Ala Ala Glu Ala Pro Asp Ile Gln Pro Lys Thr His Gln Lys Pro Glu
 65 70 75 80

Ala Arg Met Pro Arg Leu Ser Gln Gly Lys Gly Pro Asp Ile Phe His
 85 90 95

Arg Leu Gly Pro Leu Ser Val Phe Ser Ala Lys Asn Arg Trp Arg Leu
 100 105 110
 Val Gly Pro Val His Leu Thr Arg Gly Glu Gly Gly Phe Gly Leu Thr
 115 120 125
 Leu Arg Gly Asp Ser Pro Val Leu Ile Ala Ala Val Ile Pro Gly Ser
 130 135 140
 Gln Ala Ala Ala Gly Leu Lys Glu Gly Asp Tyr Ile Val Ser Val
 145 150 155 160
 Asn Gly Gln Pro Cys Arg Trp Trp Arg His Ala Glu Val Val Thr Glu
 165 170 175
 Leu Lys Ala Ala Gly Glu Ala Gly Ala Ser Leu Gln Val Val Ser Leu
 180 185 190
 Leu Pro Ser Ser Arg Leu Pro Ser Leu Gly Asp Arg Arg Pro Val Leu
 195 200 205
 Leu Gly Pro Arg Gly Leu Leu Arg Ser Gln Arg Glu His Gly Cys Lys
 210 215 220
 Thr Pro Ala Ser Thr Trp Ala Ser Pro Arg Ala Leu Leu Asn Trp Ser
 225 230 235 240
 Arg Lys Ala Gln Gln Gly Lys Thr Gly Gly Cys Pro Ser Pro Val Pro
 245 250 255
 Gln

<210> 88
 <211> 84
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (28)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 88
 Val Ser Arg Arg Gln Ala Arg Arg Met Val Thr Glu Thr Ser Arg Arg
 1 5 10 15
 Arg Arg Ile Gln Glu Leu Glu Arg Arg Arg Xaa Phe Val Glu Ala
 20 25 30
 Cys Arg Ala Arg Glu Ala Ala Phe Asp Ala Glu Tyr Gln Arg Asn Pro
 35 40 45
 His Arg Val Asp Leu Asp Ile Leu Thr Phe Thr Ile Ala Leu Thr Ala
 50 55 60
 Ser Glu Val Ile Asn Pro Leu Ile Glu Glu Leu Gly Cys Asp Lys Phe
 65 70 75 80
 Ile Asn Arg Glu

<210> 89
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 89
 His Glu Ile Gln Gly Tyr Tyr Arg Gln Tyr Arg Gln Glu Pro Val Arg
 1 5 10 15
 Phe Gly Asn Ile Gly Phe Gly Thr Pro Tyr Tyr Tyr Val Gly Trp Tyr
 20 25 30
 Glu Cys Gly Val Ser Ile Pro Gly Lys Trp
 35 40

<210> 90
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 90
 Met Met Tyr Cys Ile Leu Lys Tyr Ser Asn Cys Ala Phe Leu Tyr His
 1 5 10 15
 Leu Gln Tyr Glu Lys Cys Gln Tyr Leu Val Pro Phe Ser Gly Thr Ile
 20 25 30
 Arg Phe Leu Leu Thr Leu Phe Ser Pro Leu Thr His Val Ile Ser His
 35 40 45
 Ser Asn Gln Glu Ser Arg Glu
 50 55

<210> 91
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 91
 Met Thr Leu Asn Val Val Asp Ala Ile Ser Ala Cys Gln Arg Gly Gly
 1 5 10 15
 Phe Leu Gln Ser Val Gln Ser Thr Glu Thr Met Val Arg Val Val Phe
 20 25 30
 Leu Ile Leu Phe Leu Val Gly Gln Gln Glu Pro Phe Pro Ile
 35 40 45

<210> 92
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 92
 Met Leu Asn Phe Leu Trp Gly His Ser Leu Ile Val Pro Ala Ala Ala
 1 5 10 15
 Thr Gly Ala Ser Leu Glu Ala Ala Cys Ala Lys Thr Thr Gln Leu Ser
 20 25 30

Leu Gly Ser His Pro Arg Ala Phe Phe Ala Ser Arg Ser Gly Asp Leu
 35 40 45

Leu Gln
 50

<210> 93
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 93
 Met Pro Gln Ala Thr Tyr Pro Gly Glu Ser Leu Pro Val Leu Leu His
 1 5 10 15

Glu Phe Leu Ser His Arg Met His Val Pro Leu His Phe Val Thr Ser
 20 25 30

Val Ser Pro Thr Arg Gln
 35

<210> 94
 <211> 30
 <212> PRT
 <213> Homo sapiens

<400> 94
 Met Arg Cys Thr Pro Gly Phe Gly Leu Gly Thr Ser Gly Phe Ser Gln
 1 5 10 15

Gly Arg Leu Glu Val Glu Thr Ser Thr Cys Val Thr Val Val
 20 25 30

<210> 95
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 95
 Met Phe Arg Asp Leu Ser Glu Lys Leu Ala Trp Phe Glu Gly Thr Gln
 1 5 10 15

Tyr His Phe Asn Leu Leu Lys Ile Ser Val Phe Leu Leu Phe Phe Cys
 20 25 30

Cys His Cys Gln Ser Ala Ile Phe Phe Thr Ile Leu Leu Lys Tyr Tyr
 35 40 45

Cys Leu Leu
 50

<210> 96
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 96
 Met Phe Arg Asp Leu Ser Glu Lys Leu Ala Trp Phe Glu Gly Thr Gln

1	5	10	15												
Tyr	His	Phe	Asn	Leu	Leu	Lys	Ile	Ser	Val	Phe	Leu	Leu	Phe	Phe	Cys
20	25	30													
Cys	His	Cys	Gln	Ser	Ala	Ile	Phe	Phe	Thr	Ile	Leu	Leu	Lys	Tyr	Tyr
35	40	45													
Cys	Leu	Leu	Tyr	Leu	Phe	Asn	Val	His	Ile	Leu	Lys	Lys	Ser	Ser	Leu
50	55	60													
Tyr	Glu	Leu	Phe												
65															

<210> 97
 <211> 63
 <212> PRT
 <213> Homo sapiens

<400> 97															
Met	Ser	Tyr	Phe	Gln	Ser	Cys	Ala	Leu	Asn	Gln	Ser	Trp	His	Thr	Gly
1	5	10	15												
Ser	Val	Tyr	Ile	Lys	Phe	His	Leu	Ala	Thr	Asp	Gly	Gln	Ile	Glu	
20	25	30													
Met	Pro	Ser	Tyr	Gly	Glu	Tyr	Phe	Ser	Phe	Lys	Lys	Leu	Lys	Arg	Leu
35	40	45													
Ile	Ile	Leu	Lys	Lys	Lys	Asn	Arg	Pro	Thr	Arg	Pro	Asp	Tyr	Met	
50	55	60													

<210> 98
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 98															
Ile	Arg	His	Glu	Ser	Leu	Phe	Ile	Glu	Gly	Val	Ser	Gly	Cys	Ser	Leu
1	5	10	15												
Leu	Ser	Ala	Glu	Thr	Leu	Ser	Cys	Pro	Cys	Ser	Leu	Val	Trp	Asn	Gly
20	25	30													
Ser	Arg	Val	Thr	Val	Lys	Glu	Leu	Asn	Leu	Pro	Thr	His	Pro	His	Cys
35	40	45													
Ser	Arg	Leu	Arg	Leu	Ala	Asp	Leu	Leu	Ile	Ala	Glu	Gln	Glu	His	Ser
50	55	60													
Ser	Lys	Leu	Arg	Ala	Pro	Leu	Thr	Cys	Tyr	Ser					
65	70	75													

<210> 99
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 99															
His	Phe	Asn	Pro	Ala	Val	Ser	Leu	Ala							

1

5

<210> 100
 <211> 9
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (5)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (6)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (7)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (8)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (9)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 100
 Xaa Xaa Asn Pro Xaa Xaa Xaa Xaa
 1 5

<210> 101
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 101
 Met Ser Gly Glu Ile Ala Met Cys Glu Pro Glu Phe Gly Asn Asp Lys
 1 5 10 15
 Ala Arg Glu Pro Ser Val Gly Gly Arg Trp Arg Val Ser Trp Tyr Glu
 20 25 30
 Arg Phe Val Gln Pro Cys
 35 .

<210> 102
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 102
 Leu Val Glu Leu Leu Gly Ser Ala Leu Phe Ile Phe Ile Gly Cys Leu
 1 5 10 15

<210> 103
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 103
 Ser Val Ile Glu Asn Gly Thr Asp Thr Gly
 1 5 10

<210> 104
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 104
 Leu Leu Gln Pro Ala Leu Ala His Gly Leu Ala Leu Gly Leu Val Ile
 1 5 10 15

Ala

<210> 105
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 105
 Thr Leu Gly Asn Ile Ser Gly Gly His Phe Asn Pro Ala
 1 5 10

<210> 106
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 106
 Val Ser Leu Ala Ala Met Leu Ile Gly Gly Leu Asn Leu Val Met Leu
 1 5 10 15

Leu

<210> 107

<211> 46
 <212> PRT
 <213> Homo sapiens

<400> 107
 Pro Tyr Trp Val Ser Gln Leu Leu Gly Gly Met Leu Gly Ala Ala Leu
 1 5 10 15
 Ala Lys Ala Val Ser Pro Glu Glu Arg Phe Trp Asn Ala Ser Gly Ala
 20 25 30
 Ala Phe Val Thr Val Gln Glu Gln Gly Gln Val Ala Gly Ala
 35 40 45

<210> 108
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 108
 Leu Val Ala Glu Ile Ile Leu Thr Thr Leu Leu Ala Leu Ala Val Cys
 1 5 10 15
 Met

<210> 109
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 109
 Gly Ala Ile Asn Glu Lys Thr Lys Gly Pro
 1 5 10

<210> 110
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 110
 Leu Ala Pro Phe Ser Ile Gly Phe Ala Val Thr Val Asp Ile Leu Ala
 1 5 10 15

Gly

<210> 111
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 111
 Gly Pro Val Ser Gly Gly Cys Met Asn Pro Ala Arg Ala Phe Gly Pro
 1 5 10 15
 Ala Val Val Ala Asn His Trp Asn Phe His Trp
 20 25

<210> 112
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 112
 Ile Tyr Trp Leu Gly Pro Leu Leu Ala Gly Leu Leu Val Gly Leu Leu
 1 5 10 15

Ile

<210> 113
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 113
 Arg Cys Phe Ile Gly Asp Gly Lys Thr Arg Leu Ile Leu Lys Ala Gln
 1 5 10 15

<210> 114
 <211> 320
 <212> PRT
 <213> Homo sapiens

<400> 114
 Phe Pro Gly Arg Pro Thr Arg Pro Glu Val Met Met Thr Lys Tyr Ser
 1 5 10 15
 Asn Leu Ser Leu Glu Ser His Asn Phe Ser Leu Thr Ala Ser Pro Leu
 20 25 30

Thr Ser Leu Pro Ile Pro Glu Val Met Met Thr Lys Tyr Ser Asn Leu
 35 40 45

Phe Leu Glu Ser His Asn Ile Ser Leu Thr Glu His Ser Ser Val Pro
 50 55 60

Val Glu Lys Asn Ile Thr Leu Glu Arg Pro Ser Ala Val Glu Leu Thr
 65 70 75 80

Cys Gln Phe Thr Thr Ser Gly Asp Val Asn Ser Val Asn Val Thr Trp
 85 90 95

Lys Lys Gly Asp Glu Gln Leu Lys Asn Tyr His Val Ser Ala Thr Glu
 100 105 110

Gly Ile Leu Tyr Thr Gln Tyr Lys Phe Ser Ile Ile Asn Ser Glu Gln
 115 120 125

Leu Gly Ser Tyr Ser Cys Phe Phe Glu Glu Glu Lys Glu Arg Arg Gly
 130 135 140

Thr Phe Asn Phe Gly Val Pro Glu Val Gln Arg Lys Asn Lys Pro Leu
 145 150 155 160

Ile Thr Tyr Val Gly Asp Ser Val Val Leu Val Cys Lys Cys Arg His
 165 170 175
 Cys Ala Pro Leu Asn Trp Thr Trp Tyr Ser Gly Asn Arg Ser Val Gln
 180 185 190
 Val Pro Leu Asp Val His Met Asn Glu Lys Tyr Ala Ile Asn Gly Thr
 195 200 205
 Asn Ala Asn Glu Thr Arg Leu Lys Ile Met Gln Leu Ser Glu Asp Asp
 210 215 220
 Lys Gly Ser Tyr Trp Cys His Ala Met Phe Gln Leu Gly Glu Ser Gln
 225 230 235 240
 Glu Ser Val Glu Leu Val Val Ile Ser Tyr Leu Val Pro Leu Lys Pro
 245 250 255
 Phe Leu Gly Ile Val Val Glu Val Ile Leu Leu Val Ala Ile Ile Leu
 260 265 270
 Phe Cys Glu Met His Thr Gln Lys Lys Lys Met His Met Asp Asp Gly
 275 280 285
 Lys Glu Phe Glu Gln Val Glu Gln Leu Lys Ser Asp Asp Ser Asn Gly
 290 295 300
 Ile Glu Asn Asn Ala Pro Arg His Arg Lys Asn Glu Ala Met Ser Gln
 305 310 315 320

<210> 115
 <211> 256
 <212> PRT
 <213> Homo sapiens

<400> 115
 Phe Pro Gly Arg Pro Thr Arg Pro Glu Val Met Met Thr Lys Tyr Ser
 1 5 10 15
 Asn Leu Ser Leu Glu Ser His Asn Phe Ser Leu Thr Ala Ser Pro Leu
 20 25 30
 Thr Ser Leu Pro Ile Pro Glu Val Met Met Thr Lys Tyr Ser Asn Leu
 35 40 45
 Phe Leu Glu Ser His Asn Ile Ser Leu Thr Glu His Ser Ser Val Pro
 50 55 60
 Val Glu Lys Asn Ile Thr Leu Glu Arg Pro Ser Ala Val Glu Leu Thr
 65 70 75 80
 Cys Gln Phe Thr Thr Ser Gly Asp Val Asn Ser Val Asn Val Thr Trp
 85 90 95
 Lys Lys Gly Asp Glu Gln Leu Lys Asn Tyr His Val Ser Ala Thr Glu
 100 105 110
 Gly Ile Leu Tyr Thr Gln Tyr Lys Phe Ser Ile Ile Asn Ser Glu Gln
 115 120 125

Leu Gly Ser Tyr Ser Cys Phe Phe Glu Glu Glu Lys Glu Arg Arg Gly
 130 135 140
 Thr Phe Asn Phe Gly Val Pro Glu Val Gln Arg Lys Asn Lys Pro Leu
 145 150 155 160
 Ile Thr Tyr Val Gly Asp Ser Val Val Leu Val Cys Lys Cys Arg His
 165 170 175
 Cys Ala Pro Leu Asn Trp Thr Trp Tyr Ser Gly Asn Arg Ser Val Gln
 180 185 190
 Val Pro Leu Asp Val His Met Asn Glu Lys Tyr Ala Ile Asn Gly Thr
 195 200 205
 Asn Ala Asn Glu Thr Arg Leu Lys Ile Met Gln Leu Ser Glu Asp Asp
 210 215 220
 Lys Gly Ser Tyr Trp Cys His Ala Met Phe Gln Leu Gly Glu Ser Gln
 225 230 235 240
 Glu Ser Val Glu Leu Val Val Ile Ser Tyr Leu Val Pro Leu Lys Pro
 245 250 255

<210> 116
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 116
 Phe Leu Gly Ile Val Val Glu Val Ile Leu Leu Val Ala Ile Ile Leu
 1 5 10 15
 Phe

<210> 117
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 117
 Cys Glu Met His Thr Gln Lys Lys Lys Met His Met Asp Asp Gly Lys
 1 5 10 15
 Glu Phe Glu Gln Val Glu Gln Leu Lys Ser Asp Asp Ser Asn Gly Ile
 20 25 30
 Glu Asn Asn Ala Pro Arg His Arg Lys Asn Glu Ala Met Ser Gln
 35 40 45

<210> 118
 <211> 246
 <212> PRT
 <213> Homo sapiens

<400> 118

Met Met Thr Lys Tyr Ser Asn Leu Ser Leu Glu Ser His Asn Phe Ser
 1 5 10 15

Leu Thr Ala Ser Pro Leu Thr Ser Leu Pro Ile Pro Glu Val Met Met
 20 25 30

Thr Lys Tyr Ser Asn Leu Phe Leu Glu Ser His Asn Ile Ser Leu Thr
 35 40 45

Glu His Ser Ser Val Pro Val Glu Lys Asn Ile Thr Leu Glu Arg Pro
 50 55 60

Ser Ala Val Glu Leu Thr Cys Gln Phe Thr Thr Ser Gly Asp Val Asn
 65 70 75 80

Ser Val Asn Val Thr Trp Lys Lys Gly Asp Glu Gln Leu Lys Asn Tyr
 85 90 95

His Val Ser Ala Thr Glu Gly Ile Leu Tyr Thr Gln Tyr Lys Phe Ser
 100 105 110

Ile Ile Asn Ser Glu Gln Leu Gly Ser Tyr Ser Cys Phe Phe Glu Glu
 115 120 125

Glu Lys Glu Arg Arg Gly Thr Phe Asn Phe Gly Val Pro Glu Val Gln
 130 135 140

Arg Lys Asn Lys Pro Leu Ile Thr Tyr Val Gly Asp Ser Val Val Leu
 145 150 155 160

Val Cys Lys Cys Arg His Cys Ala Pro Leu Asn Trp Thr Trp Tyr Ser
 165 170 175

Gly Asn Arg Ser Val Gln Val Pro Leu Asp Val His Met Asn Glu Lys
 180 185 190

Tyr Ala Ile Asn Gly Thr Asn Ala Asn Glu Thr Arg Leu Lys Ile Met
 195 200 205

Gln Leu Ser Glu Asp Asp Lys Gly Ser Tyr Trp Cys His Ala Met Phe
 210 215 220

Gln Leu Gly Glu Ser Gln Glu Ser Val Glu Leu Val Val Ile Ser Tyr
 225 230 235 240

Leu Val Pro Leu Lys Pro
 245

<210> 119
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 119
 Gly His Ser Leu Thr Cys Tyr Ala Cys Ile Asp Arg Glu Thr Cys Asn
 1 5 10 15

Lys Thr Thr Val Cys Ser Val Asn His Asp Ala Cys Leu Leu Val Lys
 20 25 30

Ala Asp Pro Lys Leu Phe Tyr Arg Gln Cys Trp Lys Phe Asp Asp Cys
 35 40 45

Ser Tyr Leu Ser Ile Ser Lys Ala Leu Gly Leu Lys Lys Leu Gln Tyr

50

55

60

Ser Cys Cys Gln Lys Asp 65 Leu Cys Asn Gly 70 Ser Ala Arg Val Ser Gly 75 80

Met

<210> 120

<211> 78

<212> PRT

<213> Homo sapiens

<400> 120

Leu Thr Cys Tyr Ala Cys Ile Asp Arg Glu Thr Cys Asn Lys Thr Thr 1 5 10 15

Val Cys Ser Val Asn His Asp Ala Cys Leu Leu Val Lys Ala Asp Pro 20 25 30

Lys Leu Phe Tyr Arg Gln Cys Trp 35 40 Lys Phe Asp Asp Cys Ser Tyr Leu 45

Ser Ile Ser Lys Ala Leu Gly Leu Lys Lys Leu Gln Tyr Ser Cys Cys 50 55 60

Gln Lys Asp Leu Cys Asn Gly Ser Ala Arg Val Ser Gly Met 65 70 75

<210> 121

<211> 18

<212> PRT

<213> Homo sapiens

<400> 121

Leu Asn Ser Arg Asp Ala Ala Arg His Thr Ala Glu Gln Asn Ala Thr 1 5 10 15

Asn Thr

<210> 122

<211> 15

<212> PRT

<213> Homo sapiens

<400> 122

Met Leu Pro Ser Ile Ser Val Asn Ser Pro Met Gln Gly Asn Gly 1 5 10 15

<210> 123

<211> 13

<212> PRT

<213> Homo sapiens

<400> 123

Gly Phe Val Leu Asp Met Gly Phe Phe Glu Thr Ile Lys 1 5 10

<210> 124
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 124
 Ser Thr Leu Met Trp Phe Ile Ser Asn Lys Tyr Leu Val Lys Arg Gln
 1 5 10 15
 Ser Arg Asp Tyr Asp Val Glu Trp Gly Tyr Ala Phe Asp Val His Leu
 20 25 30
 Asn Ala Phe Tyr Pro
 35

<210> 125
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 125
 Leu Thr Asp Thr Phe Ile Gly Tyr Phe Val Gly Asn
 1 5 10

<210> 126
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 126
 Tyr Ser Ala Leu Pro Phe Leu Lys Asn
 1 5

<210> 127
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 127
 Ser Leu Ala Leu Gly Trp Asn Phe Thr His Thr Leu Cys Ser Phe Tyr
 1 5 10 15
 Lys Tyr Arg Val Lys
 20

<210> 128
 <211> 249
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (4)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (5)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (18)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (28)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (35)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 128
 Met Leu Pro Xaa Xaa Pro Trp Asn Ser Pro Met Pro Gly Asn Gly Cys
 1 5 10 15
 Trp Xaa Ser Arg Gly Cys Gln Gln Asp Thr Gln Xaa Ser Lys Thr Leu
 20 25 30

Pro Ile Xaa Glu Lys Thr Phe Ser Phe Ser Gln Met Asp Phe Glu Phe
 35 40 45

Ala Ala Trp Gln Met Leu Tyr Leu Phe Thr Ser Pro Gln Arg Val Tyr
 50 55 60

Arg Asn Phe His Tyr Arg Lys Gln Thr Lys Asp Gln Trp Ala Arg Asp
 65 70 75 80

Asp Pro Ala Phe Leu Val Leu Leu Ser Ile Trp Leu Cys Val Ser Thr
 85 90 95

Ile Gly Phe Gly Phe Val Leu Asp Met Gly Phe Phe Glu Thr Ile Lys
 100 105 110

Leu Leu Leu Trp Val Val Phe Ile Asp Cys Val Gly Val Gly Leu Leu
 115 120 125

Ile Ser Thr Leu Met Trp Phe Ile Ser Asn Lys Tyr Leu Val Lys Arg
 130 135 140

Gln Ser Arg Asp Tyr Asp Val Glu Trp Gly Tyr Ala Phe Asp Val His
 145 150 155 160

Leu Asn Ala Phe Tyr Pro Leu Leu Val Ile Leu His Phe Ile Gln Leu
 165 170 175

Phe Phe Ile Asn His Val Ile Leu Thr Asp Thr Phe Ile Gly Tyr Phe
 180 185 190

Val Gly Asn Thr Leu Trp Leu Val Ala Val Gly Tyr Tyr Ile Tyr Val
 195 200 205

Thr Phe Leu Gly Tyr Ser Ala Leu Pro Phe Leu Lys Asn Thr Val Ile
 210 215 220

Leu Leu Tyr Pro Phe Ala Pro Leu Ile Leu Leu Tyr Gly Leu Ser Leu
 225 230 235 240

Ala Leu Gly Trp Asn Phe Thr His Thr
245

<210> 129
<211> 61
<212> PRT
<213> Homo sapiens

<400> 129
Met Met Val Ser Cys Ala Cys Glu His Leu Leu Glu Leu Arg Gly Leu
1 5 10 15
Thr Thr Ser Thr Arg Trp Pro Trp Leu Val Pro His Thr Gly Leu Val
20 25 30
Leu Lys Ile Arg Ser Pro Arg Gln Gly Glu Pro Gly Ala Pro Pro Leu
35 40 45
Ser Val Cys Leu Ser Pro Val Val Ser Leu Cys Cys Cys
50 55 60

<210> 130
<211> 17
<212> PRT
<213> Homo sapiens

<400> 130
Leu Cys Leu Cys Phe Cys Leu Ser Val Ala Met Ser Leu Val Ile Phe
1 5 10 15
Leu

<210> 131
<211> 40
<212> PRT
<213> Homo sapiens

<400> 131
Cys Pro Ala Ala Ile Ser Ala Leu Val Thr Ser Thr Leu Leu Ser Pro
1 5 10 15
Arg Asp Ala Thr His Trp Gly Ser Val Gly Glu Ile Ala Leu Gly Pro
20 25 30
His Ala Ser Ile Pro Gly Trp Leu
35 40

<210> 132
<211> 16
<212> PRT
<213> Homo sapiens

<400> 132
Cys Leu Pro Val Ser Leu His Val Ser Pro Cys Val Phe Leu Ser Val
1 5 10 15

<210> 133
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 133
 Ser Leu Thr Gly Arg Asp Ala Glu
 1 5

<210> 134
 <211> 73
 <212> PRT
 <213> Homo sapiens

<400> 134
 Met Asp Thr Glu Lys Ser Trp Ile Pro Arg Val Trp Leu Ala Leu Ser
 1 5 10 15
 Cys Pro Leu Val Ile Ser Glu Trp Phe Leu Ile Leu Cys Ile His Val
 20 25 30
 Met Arg Gly Lys Phe Pro His Asp Leu Leu Cys Phe Leu Ile Lys Leu
 35 40 45
 Leu Cys Pro Thr Ile Ala Gly Ser Ala Tyr Gly Cys Cys Asn Val Gly
 50 55 60
 Ser Ala Val Ser Cys Ser Tyr His Phe
 65 70

<210> 135
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 135
 Met Pro Leu Gly Cys Arg Glu Glu Ala Gly Gly Val Met Gly Met Gly
 1 5 10 15
 Ser Gly Arg Gly Arg Glu Gly Pro Ser Thr Lys Ala Trp Glu Met Arg
 20 25 30
 Gly Gly Gly Gly Arg Ala Gly Glu Ala Lys Ser Gln Pro Trp Arg Glu
 35 40 45
 His Pro Gly Ala Ser Val Ser Gly Tyr Thr Gln His Phe Ala Thr Cys
 50 55 60
 Gly Pro Ala Gly Ala Glu Asp Gly Gly Glu Ala Ser Ser Pro Cys
 65 70 75 80
 Val Tyr Cys Arg Gln Lys Gly Leu
 85

<210> 136
 <211> 16

<212> PRT
<213> Homo sapiens

<400> 136
Val Phe Trp Phe Trp Gly Phe Cys Phe Val Cys Val Leu Phe Gly Leu
1 5 10 15

<210> 137
<211> 118
<212> PRT
<213> Homo sapiens

<400> 137
Glu Gln Asp Pro His Ala Ala Gln Pro Cys Leu Thr Arg Gly Trp Pro
1 5 10 15

Gln Lys Arg Val Gly Glu Ala Gly Gln Gln Gly Leu Ala Glu Ile Ile
20 25 30

Cys Arg Ala Gln Glu Ala Gly Glu Arg Arg Gln Phe Gln Gly Pro Phe
35 40 45

Val Arg Gln Val Pro Gly Ala Gln Pro Gly Arg Gln Glu Gly Leu Ser
50 55 60

Pro Ser Pro Arg Gln Glu Gly Ser Gln Ala Glu Ala Pro Pro Ser Gly
65 70 75 80

Thr Pro Gln Pro Thr Pro Ala Ala Leu Gly Pro Arg Leu Ile Lys His
85 90 95

Pro Pro His Gly Arg Gln Leu Tyr Leu Val Asp Arg Lys Ser Ala Ser
100 105 110

Pro Ile Tyr Asp Gly Thr
115

<210> 138
<211> 155
<212> PRT
<213> Homo sapiens

<400> 138
Thr Gly Ala Gln Glu Arg Thr Ser Val Arg Leu Thr Ala Arg Cys Cys
1 5 10 15

Thr Glu Asn Pro Gln Pro Glu Pro Leu Gly Pro Ala Gln Ala Arg Pro
20 25 30

Glu Lys Glu Gly Ala Gly Gly Arg Pro Ala Trp Gly Ser Arg Glu Ala
35 40 45

His Gly Met Glu Ala Gly Glu Pro Gly Gly Leu Gly Gln Pro Trp Asp
50 55 60

Gly Ser Trp Ile Glu Glu Ser Arg Gly Val Met Arg Val Pro Ser Gly
65 70 75 80

Leu Gly Ser Leu Leu Leu Val Ser Asp Pro Pro Phe Ser Ser Gln

85

90

95

Ala Leu Gly Ala Pro Gly Ser Glu Asp Ser Trp Glu Ser Ser Leu Arg
100 105 110

Gln Val Gln Gly Gln Ser Ser Asp Pro Gly Pro Gly Leu Leu Trp Val
115 120 125

Pro Met Asn Ser Ala Ser Gly Ser Glu Gln Phe Pro Ala Pro Leu Pro
130 135 140

Glu Pro Ser Val Leu Trp Asn Pro Trp Ala Gly
145 150 155